

Volume

#

R0375

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BOOK A-375

FIELD NOTES

OF THE SURVEY OF THE

Of the _____ Meridian,

the State of _____

EXECUTED BY

the capacity of U. S. Surveyor_____, under instructions dated_____, 191_____,

ed by the United States Surveyor General to govern surveys included in

up No._____, which were approved by the Commissioner of the General Land

ce,_____, 191_____, pursuant to authority contained in the Act of

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FIELD NOTES

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OF THE SURVEY OF THE

Of the _____ Meridian,

the State of _____

EXECUTED BY

the capacity of U. S. Surveyor _____, under instructions dated _____, 191_____,
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Congress dated _____, 191_____.

Survey commenced _____, 191_____.

Survey completed _____, 191_____.

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" 19 "

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MML

OCT 5 1906

FIELD NOTES

OF THE SURVEY OF THE

N-O-R-T-H B-O-U-N-D-A-R-Y

of

TOWNSHIP NO. 24 South,

RANGE NO. 4 $\frac{1}{2}$ West,

Of the Salt Lake Base and Meridian,

in the state of Utah

AS SURVEYED BY

Harvey D. Heist and Earl V. Woolley, United States Deputy Surveyor, S

their ^{for his} Contract No. 291, dated June 3, 1905.

Survey commenced July 1, 1906

Survey completed July 3, 1906

0-151

High 5.76-10
Ctg. 61.50'

NAMES AND DUTIES OF ASSISTANTS.

Walter A. Sturm, Chairman

Melvin D. Heist, "

Homer A. Shelley, Moundman

Horace L. Allred, Axman

Will L. White, Flagman

For preliminary affidavits see book "Z" Tp.20 S . R. 1 W.

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Township 24 South, Range 4 $\frac{1}{2}$ West

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PRELIMINARY OATHS OF ASSISTANTS.

WE, and

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

....., Chainman.

....., Chainman.

Subscribed and sworn to before me this }
day of , 190 }



WE, and

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

....., Moundman.

....., Moundman.

Subscribed and sworn to before me this }
day of , 190 }



WE, and

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

....., Axman.

....., Axman.

Subscribed and sworn to before me this }
day of , 190 }



I, , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

....., Flagman.

Subscribed and sworn to before me this }
day of , 190 }



NORTH BOUNDARY OF T. 24 S., R. 4 $\frac{1}{2}$ W.

Survey commenced July 1, 1906, and executed with the instrument described in book "A" of this survey. I examine the adjustments of the transit and correct the level and collimation errors; then, to test the solar apparatus by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

I begin at the closing cor. of T.24 S., Rs.4 $\frac{1}{2}$ and 5 W., which is a sandstone 12 x 8 x 3 ins. above ground, marked and witnessed as described by the surveyor general, in approximate latitude $38^{\circ} 47'N.$, longitude $112^{\circ} 27'W.$.

At 4 h.03 m.p.m.l.m.t.I set off $38^{\circ} 47'N.$ on lat.arc; $23^{\circ} 09'N.$ on decl.arc; and determine a meridian with the solar and mark a point thereof on a stone firmly set in the ground 5 chs.N.of the cor.

July 1, 1906.

July 2, at 12 h.52 m.p.m.l.m.t.I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined on a peg driven in the ground 5 chs. N.of my station.

At 6 a.m.l.m.t.I lay off the azimuth of Polaris $1^{\circ} 32'$ to the west, and mark the meridian thus determined by cutting a small groove in the stone set last evening, on which the meridian falls 0.5 ins.east of the mark determined by the solar.

At 7h.04m.a.m.l.m.t.I set off $38^{\circ} 47'N.$ on lat.arc, $23^{\circ} 07'N.$ on decl.arc; and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs.N.of my station; this mark falls

NORTH BOUNDARY OF T. 24 S., R. 4 $\frac{1}{2}$ W.

0.5 ins.east of the meridian established by the Polaris observation.

The solar apparatus by p.m. and a.m. observations defines positions for meridians about 0'26" west and east of the meridian established by the Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 7h.15m.a.m. is N.16° 23'W., the angle thus determined gives the mag.decl.16° 23'E.

Thence I run east, on a random line, for distance only, and at 476.10 chs. intersect the W.bdy. of T.23 S., R. 4 W., 61.30 chs.N.of the cor.of Tps.23 and 24 S., Rs. 4 and 4 $\frac{1}{2}$ W. Set a quartzite stone 18x11x7 ins., 12 ins.in the ground,for cor.of Tps.23 and 24 S., R. 4 $\frac{1}{2}$ W., marked 24 S on SW., and 4 $\frac{1}{2}$ W on NW.face, with 6 notches on N., S., and W.edges, and raise a mound of stone 2 ft.base, 1 $\frac{1}{2}$ ft.high W.of cor.Pits impracticable. I destroy all marks on the cor.of Tps.23 and 24 S., Rs.4 and 4 $\frac{1}{2}$ W., that pertain to R.4 $\frac{1}{2}$ W.

July 2, 1906.

July 3: At 7h.04m.a.m.l.m.t.I set off 38° 47' N.on lat.arc; 23° 02'N.on decl., and determine a meridian with the solar, at the cor.of Tps.23 and 24 S., R.4 $\frac{1}{2}$ W. Thence I run

West bet.secs.1 and 36,

Ascend abruptly through dense oak brush.

- | | |
|-------|--|
| 16.00 | Ridge, bears N. and S. Abrupt descent. |
| 36.00 | Hollow, 200 ft.deep, course.S. Abrupt ascent. |
| 40.00 | Set a quartzite stone 15x7x6 ins., 10 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; and raise a mound of stone 2 ft.base, 1 $\frac{1}{2}$ ft.high N.of cor. Pits impracticable. |

Chains. NORTH BOUNDARY OF T. 24 S., R. 4 $\frac{1}{2}$ W.

- 45.00 Ridge, bears N. and S. Abrupt descent.
- 52.00 Hollow, 150 ft. deep, course S.
Abrupt ascent.
- 56.50 Spur, projects S.
Abrupt descent.
- 61.50 Hollow, 150 ft. deep, course S.E.
Abrupt ascent.
- 73.50 Ridge, bears N. and S.
Abrupt descent.
- 80.00 Set a quartzite stone, 18x7x5 ins., 12 ins. in the ground,
for cor. of secs. 1-2-35 and 36, marked with 1 notch on E.
and 5 notches on W. edges, and raise a mound of stone, 2 ft.
base, 1 $\frac{1}{2}$ ft. high, W. of cor.
Pits impracticable.
Land, mountainous.
Soil, rocky, 3rd. rate.
No timber; undergrowth, oak.
Mountainous land on 80.00 chs.

West, bet. secs. 2 and 35.

- Descend abruptly over rocky land, through dense oak brush.
- 5.25 Hollow, 200 ft. deep, course S.
Abrupt ascent.
- 15.00 Ridge, bears N.W. and S.E.
Abrupt descent.
- 37.75 Hollow, 150 ft. deep, course S.E.
Abrupt ascent.
- 40.00 Set a quartzite stone, 18x10x6 ins., 12 ins. in the ground,
for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of
stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
Pits impracticable.
- 45.00 Mountain ridge, bears N. and S.
Enter dense mountain mahogany.
Abrupt descent.
- 80.00 Set a quartzite stone, 20x8x5 ins., 15 ins. in the ground,

NORTH BDY. OF T. 24 S., R. 4 $\frac{1}{2}$ W.

CHAINS

for cor. of secs. 2-3-34 and 35, marked with 2 notches on E. and 4 notches on W. edges, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

Pits impracticable.

Land, mountainous.

Soil, rocky, 3rd. rate.

No timber; undergrowth, oak and mahoganies.

Mountainous land on 80.00 chs.

West, bet. secs. 3 and 34.

Descend abruptly through dense oak and scattering mountain mahoganies.

6.00 Hollow, 300 ft. deep, course S.W.

Ascend.

10.00 Spur, projects S.

Descend.

13.00 Hollow, 200 ft. deep, course S.

Abrupt ascent.

20.00 Rocky spur, projects S.

Abrupt descent.

26.00 Hollow, 150 ft. deep, course S.

Ascend.

33.00 Spur, projects S.

Abrupt descent.

40.00 Set a quartzite stone, 24x12x6 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.

Pits impracticable.

44.00 Hollow, 200 ft. deep, course S.

Abrupt ascent.

52.00 Rocky ridge, bears N.E. and S.W.

Abrupt descent.

63.00 Hollow, 200 ft. deep, course S.W.

Abrupt ascent.

NORTH BOUNDARY OF T. 24 S., R. 4 $\frac{1}{2}$ W.

CHAINS	
75.00	Ridge, bears N.E. and S.W. Descend through dense mahoganies.
80.00	Set a sandstone, 20x8x7 ins., 15 ins. in the ground, for cor. of secs. 3-4-33 and 34, marked with 3 notches on E. and W. edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, rocky, 3rd. rate. No timber; undergrowth, oak and mahoganies. Mountainous land on 80.00 chs.
	July 3: At this cor. I set off 23° 00' N, on decl. arc, and at 12h. 04m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 38° 47' N.
9.75	West, bet. secs. 4 and 33. Descend through dense sage, oak and scattering mountain mahoganies.
15.00	Hollow, 150 ft. deep, course N.W. Ascend.
34.00	Spur, projects N. Descend.
40.00	Hollow, 150 ft. deep, course N. Ascend.
43.50	Set a sandstone, 20x12x4 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
51.00	Spur, projects N. Descend abruptly over broken quartzite ledges.
61.00	Enter bottom of north fork of Corn Creek Canon, 500 ft. deep, course S.W. Enter heavy cottonwood timber.
61.50	North fork of Corn Creek, 10 lks. wide, 6 ins. deep, course

NORTH EDY. OF T. 24 S., R. 4½ W.

CHAINS

S.E.

- 63.50 Canon road, bears N.E. and S.W.
- 64.50 Leave canon bottom and timber, bears N.E. and S.W.
Ascend abruptly over broken ledges.
- 77.00 Enter scattering cedar timber.
- 80.00 Spur, projects S.E.
Set a sandstone, 24x6x6 ins., 18 ins. in the ground, for corner of sections 4 and 5 marked with 4 notches on E. and 2 notches on W. edges, from which
A cedar, 5 ins. diam., bears S. 36° E., 29 lks. dist., marked T. 24 S., R 4½ W S 4 B T.
A cedar, 5 ins. diam., bears S. 39° W., 50 lks. dist., marked T. 24 S R 4½ W S 5 B T.
No other trees within limits, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
Pits impracticable.
Land, mountainous.
Soil, rocky, 3rd. and 4th. rate.
Timber, cedar and cottonwood; undergrowth, sage, oak and mahoganies.
Mountainous land on 80.00 chs.

West on N. bay. of sec. 5.

Descend over rocky land, through sage, oak and scattering cedar timber.

- 4.50 Hollow, 100 ft. deep, course S.E.
Abrupt ascent.
- 12.50 Rocky spur, projects S.E.
Descend abruptly.
Leave timber.
- 38.50 Hollow, 250 ft. below spur, course S.W.
Ascend.
- 40.00 Set a sandstone, 18x8x6 ins., 12 ins. in the ground, for sec. cor., marked 4 on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
Pits impracticable.

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NORTH BDY. OF T. 24 S., R. 4 $\frac{1}{2}$ W.

CHAINS

- 40.50 Spur, projects S.W.
Descend.
- 64.50 Enter bottom of Corn Creek Canon, 500 ft. deep, course N.W.
Enter heavy cotton timber, bearing N.W. and S.E.
Over bottom land.
- 69.00 Road, from Kanosh to Sevier Valley, bears N.W. and S.E.
- 73.00 Corn Creek, 30 lks. wide, 6 ins. deep, course N.W.
- 77.00 Leave canon bottom and cottonwood timber, bears N.W. and S.E.
Ascend abruptly over broken sandstone ledges.
- 80.00 Set a sandstone, 24x12x4 ins., 18 ins. in the ground, for corner of sections 5 and 6, marked with 5 notches on E. and 1 notch on W. edges, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
Pits impracticable.
Land, mountainous.
Soil, rocky, 3rd. and 4th. rate, on 67.50 chs.
balance bottom land, 1st. rate.
Timber, cedars and cottonwood. undergrowth, sage and oak.
Mountainous land on 80.00 chs.

West, ton. N. bdy. of sec. 6,

Ascend abruptly over broken sandstone ledges.

- 5.00 Rocky spur, projects N.
Abrupt descent.
- 10.25 Hollow, 100 ft. deep, course N.
Abrupt ascent.
- 18.00 Rocky spur, projects N.
Abrupt descent.
- 25.00 Hollow, 200 ft. deep, course N.
Abrupt ascent.
- 39.30 Rocky spur, projects N.W.
Abrupt descent.
- 40.00 Set a sandstone, 25x5x5 ins., 19 ins. in the ground, for $\frac{1}{2}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone,

NORTH BDY. OF T. 24 S., R. 4½ W.

CHAINS		2 ft. base, 1½ ft. high, N. of cor.	
		Pits impracticable.	
55.00	Hollow, 200 ft. deep, course N.W.		
	Abrupt ascent.		
64.50	Rocky spur, projects N.W.		
	Abrupt descent.		
76.10	The closing cor. of Tp. 24 S., Rs. 4½ and 5 W.		
	Land, mountainous.		
	Soil, rocky, 3rd. and 4th. rate.		
	No timber.		
	Mountainous land on 76.10 chs.		
		July 3, 1906	
		BOUNDARIES OF T. 24 S. R. 4½ W.	
		Latitudes, departures and closing errors	

Line designated	True Bearing	Distance	Latitudes	Departures
		Chs.	Chs.	Chs.
Bdy.	North	463.27	463.27	
Bdy.	East	476.10		476.10
Bdy.	South	141.30	141.30	
	S. 0° 30' W.	80.24	80.24	0.70
bs.	South	160.00	160.00	
t. secs. 24&25	West	80.00		80.00
" 23 & 26	N. 89° 51' W.	80.40	0.21	80.40
" 22 & 27	N. 89° 54' W.	79.86	0.14	79.86
" 21 & 28	N. 89° 56' W.	80.30	0.09	80.30
" 20 & 29	N. 89° 51' W.	79.88	0.21	79.88
" 29 & 30	South	80.00	80.00	
" 30 & 31	S. 89° 00' W.	75.75	1.32	75.74
Invergency			0.48	
		463.92	462.86	476.58
		462.86		476.58
	Error in lat.	1.06	Error in dep.	0.30

For general description see Subdivisions of T. 24 S., R. 4½ W.

Fairfax H. Flint
U.S. Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____

_____, United States Deputy Surveyor, to assist in running, measuring, and
king the lines and corners described in the foregoing field notes of the survey of _____

ing the respective capacities in which they acted:

_____, Chainman.

or final affidavits see book "Z" Tp.23 S.. R. 4 $\frac{1}{2}$ W., Chainman.

_____, Moundman.

_____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____

_____, United States Deputy Surveyor, in surveying all
parts or portions of the _____

of the _____

meridian, _____, which are represented

foregoing field notes as having been surveyed by him and under his direction; and that said survey
been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
monuments established, according to the instructions furnished by the United States Surveyor

al for _____

25

For final affidavits see book "Z" Tp.23 S.. R. 4 $\frac{1}{2}$ W., Chainman.

_____, Chainman.

_____, Moundman.

_____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

bed and sworn to before me this _____ }
y of _____, 190 }

SEAL

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from _____, bearing date of the United States Surveyor General for _____, day of _____, 190_____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____.

For final affidavit see book "Z" Tp. 23 S., R. 4 $\frac{1}{2}$ W. 25

of the _____

meridian, in the _____ of _____, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

United States Deputy Surveyor.

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 190 }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 18, 1907.

The foregoing field notes of the survey of the North Boundary of Township No. 24 South, Range No. 4 $\frac{1}{2}$ West of the Salt Lake Base and Meridian, Utah,

executed by Harvey D. Heist and Earl V. Woolley
under their contract No. 291, dated June 3, 1905, having been
critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Keele
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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Page

4-679.

" 30 "

Z
BOOK A-375

M.M.L.

OCT 13 1906

FIELD NOTES

OF THE SURVEY OF THE

W-E-S-T B-O-U-N-D-A-R-Y O-F

Township No. 23 South,

Range No. 4 West,

and

E A S T B O U N D A R Y

O F

TOWNSHIP NO. 23 SOUTH,

RANGE NO. 4½ WEST

Of the Salt Lake Base and Meridian,

in the state of Utah.

AS SURVEYED BY

Survey D. Heist and Earl V. Woolley, United States Deputy Surveyor,

their Contract No. 291, dated June 3, 1905

Survey commenced July 4, 1906.

Survey completed July 6, 1906.

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High 6, 65-83 ✓
Alt 32 20'

NAMES AND DUTIES OF ASSISTANTS.

Walter A. Sturm, Chairman
Melvin D. Heist, ".
Homer A. Shelley, Moundman
Horace L. Allred, Axman
Will L. White, Flagman

For preliminary affidavits see book "Z" Tp. 20 S ., R. 1 W .

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PRELIMINARY OATHS OF ASSISTANTS.

We, and
 do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the
 chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that
 we will report the true distances to all notable objects, and the true lengths of all lines that we assist in
 measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

, Chainman.

, Chainman.

Subscribed and sworn to before me this }
 day of, 190 }



We, and
 do solemnly swear that we will well and truly perform the duties of moundmen in the establishment
 of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

, Moundman.

, Moundman.

Subscribed and sworn to before me this }
 day of, 190 }



We, and
 do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners
 and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

, Axman.

, Axman.

Subscribed and sworn to before me this }
 day of, 190 }



I, , do solemnly swear that I will well and truly
 perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the
 survey of

, Flagman.

Subscribed and sworn to before me this }
 day of, 190 }



WEST BOUNDARY T. 23 S.: R. 4 W., and EAST BOUNDARY T. 23 S., R. 4 $\frac{1}{2}$ W.

CHAINS

Survey commenced, July 4, 1906, and executed with the instrument described in book "A", of this survey.

I examine the adjustments of the transit, and correct the level and collimation errors; then, to test the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

I begin at the cor. of Tps. 23 and 24 S., Range 4 W., which is a quartzite stone, 14x10x8 ins. above ground, marked and witnessed as described by the surveyor general. approximate latitude $38^{\circ}46'N.$, longitude $112^{\circ}20'W.$

At 4h.04m., p.m., l.m.t., I set off $38^{\circ}46'N.$ on lat.arc, $22^{\circ}55'N.$ on decl.arc, and determine a meridian with the solar, and mark a point thereof, on a stone, firmly set in the ground, 5 chs. N. of the cor.

July 4, 1906.

July 5: At 0 h.40 m., a.m., l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined on a peg driven in the ground, 5 chs. N. of my station.

At 6 a.m., I lay off the azimuth of Polaris, $1^{\circ}32'$ to the west and mark the meridian thus determined by cutting a small groove in the stone, set last evening, on which the meridian falls 0.5 ins. east of the mark determined by the solar.

At 7h.04m., a.m., l.m.t., I set off $38^{\circ}46'N.$ on lat.arc, $22^{\circ}52'N.$ on decl.arc, and determine a meridian with the solar and mark a point thereof, by a cross on the stone, already set 5 chs. N. of my station; this mark falls 0.5 ins. east of the meridian established by the Polaris observation.

WEST BOUNDARY T. 23 S., R. 4 W., and EAST BOUNDARY T. 23 S., R. 4 $\frac{1}{2}$ W.

CHAINS

The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively about 0'26" west and east of the meridian established by the Polaris observation; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 7h.15m., a.m. is N.16°23'W., the angle thus determined gives the mag. decl. 16°23'E.

Thence I run

North, along west bdy. of sec.31.

Ascend abruptly over broken and rocky land, over slide rocks on north side of Corn Creek Canon.

- | | |
|-------|--|
| 27.00 | Rocky spur, 500 ft. above Tp.cor., projects S.E.
Descend. |
| 30.25 | Hollow, 100 ft. deep, course E.
Abrupt ascent. |
| 40.00 | Set a quartzite stone, for $\frac{1}{4}$ sec.cor. for sec.31, marked with $\frac{1}{4}$ on E. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, E. of cor.
Pits impracticable. |
| 45.00 | Spur, projects E. Descend. |
| 61.30 | Corner of Tps.23 and 24. S., R.4 $\frac{1}{2}$ W. heretofore described. |
| 62.00 | Hollow, 100 ft. deep, course S.E.
Ascend. |
| 67.00 | Spur, projects S.E.
Descend. |
| 76.00 | Hollow, 150 ft. deep, course S.E.
Abrupt ascent. |
| 80.00 | Set a quartzite stone, 18x10x5 ins., 12 ins. in the ground, for cor.of secs.30 and 31, Tp.23 S., R.4 W., marked with 5 notches on N. and 1 notch on S. edge; raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high E. of cor.
Pits impracticable.
Land, mountainous. |

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WEST BOUNDARY T. 23 S., R. 4 W., and EAST BOUNDARY T. 25 S., R. 4 1/2 W.

Chains. Soil rocky; 3rd rate.

No timber.

Mountainous land on 80.00 chs.

North along west bdy. of sec. 30,

Ascend abruptly over rocky land; through dense oak brush.

21.30 Set a quartzite stone, 18x11x7 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec.cor. for sec. 36 T. 23 S., R. 4 1/2 W., mkd. $\frac{1}{4}$ on W. face, and raise a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor.
Pits impracticable.

22.50 Rocky ridge, bears N.W. and S.E.
Descend abruptly.

36.50 Hollow, 150 ft. deep, course E.
Abrupt ascent.

40.00 Set a quartzite stone 20x12x6 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec.cor. for sec. 30 T. 23 S., R. 4 W., marked $\frac{1}{4}$ on E. face; and raise a mound of stone 2 ft. base, 1 1/2 ft. high E. of cor.
Pits impracticable.

45.50 Spur projects E.
Abrupt descent.

52.00 Hollow, 150 ft. deep, course E.
Ascend abruptly along steep east slope.

61.30 Set a sandstone 20x10x3 ins., 15 ins. in the ground, for cor. of secs. 25 and 36, T. 23 S., R. 4 1/2 W., marked with 1 notch on S. and 5 notches on N. edges; and raise a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor.
Pits impracticable.

80.00 Set a quartzite stone 24x8x5 ins., 18 ins. in the ground for cor. of secs. 19 and 30, T. 23 S., R. 4 W., marked with 2 notches on S. and 4 notches on N. edges; and

BOUNARY T. 23 S., R. 4 W., and EAST BOUNDARY T. 23 S., R. 4 $\frac{1}{2}$ W.

Chains.	raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high E.of cor. Pits impracticable.
	Land mountainous.
	Soil rocky; 3rd rate.
	No timber; undergrowth oak.
	Mountainous land on 80.00 chs.
	July 5; At this cor. I set off $22^{\circ} 50'$ N.on decl.arc, and at 12h.04m.p.m.l.m.t.observe the sun on the meridian; the resulting lat.is $38^{\circ} 48'N$.

	North along West bdy.sec.19,
	Ascend through dense oak brush.
3.50	Mountain ridge, bears N.E.and S.W.
	Descend.
8.00	Begin ascent along steep west slope.
19.50	Enter scattering pine timber.
21.30	Set a sandstone 20x12x3 ins., 15 ins.in the ground,for $\frac{1}{2}$ sec.cor.sec.25 T.23 S.R.4 $\frac{1}{2}$ W.mkd. $\frac{1}{4}$ "on W.face; from which A pine 7 ins.diam.bears N.59° W. 83 lks.dist. marked $\frac{1}{2}$ S 25 B T
	No other trees within limits; raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft. high W.of cor.
40.00	Set a sandstone 18x12x12 ins., 12 ins.in the ground,for $\frac{1}{4}$ sec.cor.for sec.19, T. 23 S., R.4 W., marked $\frac{1}{4}$ on E.face; from which A pine 14 ins.diam.bears N.28° E. 103 lks.dist. marked $\frac{1}{4}$ S 19 B T
	No other trees within limits; raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft. high E.of cor.
	Pits impracticable.
53.50	Ridge bears N.E.and S.W.
	Abrupt descent.
55.00	Enter heavy cedar and pinon timber bears N.E.and SW.

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1st POMMELLY T. 27 S., R. 4 T., sec. 24, 25, 26, 27.

Chain.

Cl.30 Set a quartzite stone 18x10x7 ins.. 12 ins.in the ground, for cor.of secn.24 and 25. T. 27 S., R. 4 T. marked with 2 notches on S. and 4 notches on N.edges; from which

A pine 38 ins.diam.bears N.78° E. 60 lbs.wt.

marked T 23 S R 4 T S 24 R T

A pine 10 ins.diam.bears S.34° E. 28 lbs. diam.

marked T 23 S R 4 T W S 25 R T

80.00 Set a quartzite stone 18x10x6 ins.. 12 ins.in the ground for cor.of secn.18 and 19. T. 23 S., R. 4 T. marked with 3 notches on N. and S.edges; from which

A pine 7 ins.diam.bears N.43° E.39 lbs.wt.

marked T 23 S R 4 T W S 18 R T

A pine 7 ins.diam.bears S.41° E. 20 lbs.wt.

marked T 23 S R 4 T W S 19 R T

Land mountainous.

Soil rocky; 3rd rate.

Timber pine; undergrowth oak.

Mountainous land on 80.00 cha.

North along F.bdy.of secn.18.

Descent sharply over rocky land; through heavy pine timber.

1.35 Hollow, 100 ft.below sec.cor. . course T.

Leave timber, bears E. and W.

Abrupt ascent.

7.35 Spur, projects E.

Abrupt descent.

Enter heavy cedar and pinon timber. bears E. and T.

21.30 Set a limestone 18x12x4 ins.. 12 ins.in the ground, for 1/2 sec.cor. for sec.24. S. 27 S., R. 4 T. marked 4 on W.face; from which

A pine 18 ins.diam.bears S.8° E. 70 lbs.wt.

WEST BOUNDARY T. 23 S., R. 4 W. and EAST BOUNDARY T. 23 S., R. 4 1/2 W.

- Chains. marked $\frac{1}{4}$ S 24 B T
A mahogany 8 ins. diam. bears N.68° W. 37 lks.dist.
marked $\frac{1}{4}$ S 24 B T
- 25.10 North fork of Corn Creek 1 lk.wide, 4 ins.deep, in canon.
1000 ft.deep, course W.
Leave heavy timber, bears E. and W.
Enter scattering timber.
Begin abrupt ascent.
- 31.60 Rocky spur, projects S.E.
From this point miners' cabins, 3 in number, bear east
14.00 chs.dist., abandoned at time of survey. These
cabins are situated in what is known as Hell's Hole.
Descend.
- 34.50 Hollow, 100 ft.deep, course S.E.
Leave timber.
Begin abrupt ascent.
- 40.00 Set a limestone 20x12x5 ins., 15 ins.in the ground, for
 $\frac{1}{4}$ sec.cor.for sec.18 T. 23 S R 4 W, marked $\frac{1}{4}$ on E.
face; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.
high E.of cor.Pits impracticable.
- 40.60 Foot of conglomerate ledges, bearing E. and W.
- 47.50 Leave ledges, bear E. and W.
- 57.00 Ridge bears NE. and SW.
Enter heavy aspen timber, bears N.E. and S.W.
Descend.
- 58.35 Ascend abruptly along steep west slope.
- 61.30 Set a quartzite stone 18x12x5 ins., 12 ins.in the ground
for cor.of secs.13 and 24, T. 23 S., R. 4 1/2 W., marked
with 3 notches on N. and S.edges; from which
An aspen 8 ins.diam.bears S.28° W. 21 lks.dist.
marked T 23 S R 4 1/2 W S 24 B T
An aspen 5 ins.diam.bears N.30° W. 38 lks.dist.
marked T 23 S R 4 1/2 W S 13 B T
- 68.00 Ridge bears E. and W.

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WEST BOUNDARY T. 23 S., R. 4 W., and EAST BOUNDARY T. 23 S., R. 4 $\frac{1}{2}$ W.

- Chains. Abrupt descent.
- 80.00 Set a quartzite stone 15x10x7 ins., 10 ins.in the ground, for cor.of secs.7 and 18 T. 23 S., R. 4 W., marked with 4 notches on S. and 2 notches on N.edges; from which
 An aspen 14 ins.diam.bears N.67° E. 24 lks.dist.
 marked T 23 S R 4 W S 7 B T
 An aspen 8 ins.diam.bears S.67° E. 38 lks.dist.
 marked T 23 S R 4 W S 18 B T
 Land mountainous.
 Soil rocky; 3rd and 4th rate.
 Timber aspen and pine.
 Mountainous land on 80.00 chs.

July 5, 1906.

July 6: At 7h.04m.a.m.l.m.t.I set off 38° 49'N.on lat. arc; 23° 47'N.on decl.arc; and determine ameridian with the solar at the cor.of secs.7 and 18.

Thence I run

North along W.bdy.of sec.7,
 Descend along steep west slope; through heavy aspen and scattering pine timber.

- 19.00 Leave heavy timber, bears E. and W.
 Enter scattering timber.
- 20.15 Hollow, 500 ft.deep, course S.W.
 Leave aspen timber.
 Abrupt ascent through scattering pine timber.
- 21.30 Set a quartzite stone 18x10x6 ins., 12 ins.in the ground, for $\frac{1}{4}$ sec.cor.sec.13, T. 23 S., R. 4 $\frac{1}{2}$ W., marked $\frac{1}{4}$ on W.face; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft.high W.of cor. Pits impracticable.
- 35.50 Leave timber.

	T BOUNDARY T. 23 S., R. 4 W., and EAST BOUNDARY T. 23 S., R. 4½ W.
Chains 40.00	Set a limestone 15x12x10 ins., 10 ins.in the ground, for $\frac{1}{2}$ sec.cor.sec.7, T. 23 S., R. 4 W., marked $\frac{1}{4}$ on E.face; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft. high E.of cor.Pits impracticable.
49.75	Enter heavy aspen timber, bears N.E.and S.W.
53.60	Ridge bears N.E.and S.W.
56.30	Enter heavy pine timber, bears N.E.and S.W.
61.30	Set a limestone 24x13x7 ins., 18 ins.in the ground,for cor.of secs.12 and 13, T.23 S., R.4½ W., marked with 4 notches on S. and 2 notches on N.edge; from which A pine 14 ins.diam.bears N.79° W. 19 lks.dist. marked T 23 S R 4½ W S 12 B T A pine 24 ins.diam.bears S.37° W. 36 lks.dist. marked T 23 S R 4½ W S 13 B T
78.50	Hollow, 200 ft.deep, course W. Abrupt ascent.
80.00	Set a limestone 15x11x10 ins., 10 ins.in the ground, for cor.of secs.6 and 7, T. 23 S., R. 4 W., marked with 5 notches on S. and 1 notch on N.edges; from which A pine 8 ins.diam.bears N.42° E. 38 lks.dist. marked T 23 S R 4 W S 6 B T A pine 9 ins.diam.bears S.50° E. 34 lks.dist. marked T 23 S R 4 W S 7 B T
	Land mountainous.
	Soil rocky, 3rd rate.
	Timber aspen and pine.
	Mountainous land on 80.00 chs.
80.50	North along W.bdy.of sec.6, Ascend abruptly through heavy aspen and pine timber. Ridge bears N.W.and S.E. Abrupt descent over rocky land.

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EST BOUNDARY T. 23 S., R. 4 W., and EAST BOUNDARY T. 23 S., R. 4 $\frac{1}{2}$ W.

- Chains.
- 21.30 Set a quartzite stone 15x10x6 ins., 10 ins. in the ground, for $\frac{1}{4}$ sec.cor. for sec.12, T. 23 S., R. 4 $\frac{1}{2}$ W. marked $\frac{1}{4}$ on W.face; from which
An aspen 10 ins.diam.bears S.14° W. 8 lks.dist.
marked $\frac{1}{4}$ S 12 B T
An aspen 6 ins.diam.bears N.43°W.15 lks.dist.
marked $\frac{1}{4}$ S 12 B T
- 31.00 Leave timber, bears N.W. and S.E.
Over quartzite boulders.
- 40.00 Point for cor.falls on a quartzite boulder 4x4x3 ft.
above ground, I cut a cross (X) at exact point for
 $\frac{1}{4}$ sec.cor. for secs.6 T. 23 S., R. 4 W., mark $\frac{1}{4}$ on E.
side of cross, and raise a mound of stone 2 ft.base,
1 $\frac{1}{2}$ ft.high N.of cor.
Pits impracticable.
- 61.30 Set a sandstone 20x13x6 ins., 15 ins. in the ground, for
cor. of secs.1 and 12 T. 23 S., R. 4 $\frac{1}{2}$ W., marked with
5 notches on S., and 1 notch on N.edges; and raise a
mound of stone 2 ft.base, 1 $\frac{1}{2}$ ft.high W.of cor.
Pits impracticable.
- 61.50 Bottom of Sunset Canon, 1200 ft.deep, course N.W.
Ascend abruptly over broken and rocky land.
- 101.30 Set a sandstone 15x10x5 ins., 10 ins. in the ground, for
 $\frac{1}{4}$ sec.cor. for sec.1 T. 23 S., R. 4 $\frac{1}{2}$ W., marked $\frac{1}{4}$ on
W.face; and raise a mound of stone 2 ft.base, 1 $\frac{1}{2}$ ft.
high W.of cor.
Pits impracticable.
- 140.50 Ridge bears N.W. and S.E.
Descend.
- 145.83 Intersect S.bdy.of T.23 S., R. 4 W. 32.20 chs.E.of the
cor. of secs.3,4,33, and 34, which is a sandstone 10x
10x6 ins.above ground, marked and witnessed as de-
scribed by the surveyor general.
Set a limestone 18x10x6 ins., 12 ins.in the ground,
for closing cor.of Tp.23 S., Rs.4 and 4 $\frac{1}{2}$ W., marked

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BOUNDARY OF T.23 S., R. 4 W. and EAST BOUNDARY T.23 S., R. 4½ W.

chains. C.C. 23 S on S., 4½ W on W., 4 W on E. face, with 6 grooves on S., E., and W. faces; and raise a mound of stone 2 ft. base, 1½ ft. high S. of cor.

I destroy all marks on the corner of secs. 3, 4, 33 and 34, that pertain to the township south.

Land mountainous.

Soil rocky; 3rd and 4th rate.

Timber aspen and pine.

Mountainous land on 145.83 chs.

July 6, 1906.

For general description see subdivisions of T.
23 S., Rs. 4 and 4½ W.

Harvey A. Fierat
U.S. Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of _____, showing the respective capacities in which they acted:

For final affidavits see book "Z" Tp. 23 S., R. 4 $\frac{1}{2}$ W. ²⁵, Chainman.
_____, Chainman.
_____, Moundman.
_____, Moundman.
_____, Axman.
_____, Axman.
_____, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____, United States Deputy Surveyor, in surveying all parts or portions of the _____, of the _____, meridian, _____, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the monuments established, according to the instructions furnished by the United States Surveyor General for _____.

For final affidavits see book "Z" Tp. 23 S., R. 4 $\frac{1}{2}$ W. ²⁵, Chainman.
_____, Chainman.
_____, Moundman.
_____, Moundman.
_____, Axman.
_____, Axman.
_____, Flagman.

scribed and sworn to before me this _____ day of _____, 190 _____ }
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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from United States Surveyor General for bearing date of the day of , 190 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for , the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of

For final affidavit see book "Z" Tp.23 S., R. 4½ W.

..... of the meridian, in the which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

United States Deputy Surveyor.

Subscribed by said , and sworn to before me }
this day of , 190 }

○○○○○
○ SEAL ○
○○○○○

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March, 18 , 1907.

The foregoing field notes of the survey of the West Boundary of Township No. 23 South, Range No. 4 West and East Boundary of Township No. 23 South, Range No. 4½ West of the Salt Lake Base and Meridian, Utah,

executed by Harvey D. Heist and Earl V. Woolley under their contract No. 291 dated June 3 , 1905 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank C. Hall
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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4-679.

"Z21"

BOOK A-375

M.M.L

FILED

OCT 11 1906

FIELD NOTES

OF THE SURVEY OF THE

S-U-B-D-I-V-I-S-I-O-N-S O-F

Township No. 23 South,

Range No. 4 West,

Of the Salt Lake Base and Meridian,

in the state of Utah

AS SURVEYED BY

Harvey D. Heist and Earl V. Woolley, United States Deputy Surveyors,
their Contract No. 291, dated June 3, 1905

Survey commenced July 3, 1906

Survey completed July 9, 1906

High 8.60.97
City 31.08

NAMES AND DUTIES OF ASSISTANTS.

Walter A. Sturm, Chairman

Melvin D. Heist, "

Homer A. Shelley, Moundman

Horace L. Allred, Axman

Will L. White Flagman

For preliminary affidavits see book "Z²" Tp. 20 S., R. 1 W.

BOOK A-375

INDEX DIAGRAM.

Township 23 South, Range 4 West

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1							
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Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

WE, _____ and _____ solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of _____

_____, Chainman.

_____, Chainman.

Subscribed and sworn to before me this _____
day of _____, 190 _____ }



WE, _____ and _____ solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of _____

_____, Moundman.

_____, Moundman.

Subscribed and sworn to before me this _____
day of _____, 190 _____ }



WE, _____ and _____ solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of _____

_____, Axman.

_____, Axman.

Subscribed and sworn to before me this _____
day of _____, 190 _____ }



I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of _____

_____, Flagman.

Subscribed and sworn to before me this _____
day of _____, 190 _____ }



SUBDIVISIONS OF T. 23 S., R. 4 W.

CHAINS

Township No. 23 South, Range No. 4 East, lies on the divide of the Pavant range of mountains and the southern portion of the township is cut by Corn Creek Canon and its tributaries: Corn Creek Canon is a narrow gorge, and can be crossed only at a few places and its forks are also deep with rocky and perpendicular sides. The eastern portion of the township is situated on the eastern slope of the divide, which is a series of perpendicular sandstone ledges, broken by box canons, draining east.

It is impossible to begin at the cor. of secs. 1-2-35 and 36 on account of the rocky and broken character of the country, which condition extends along the entire south bdy. of the Tp., I therefore survey the portion of the township which is adapted for grazing.

Survey commenced, July 7, 1906, and executed with the instrument described in book "A", of this survey.

I know the instrument to be in adjustment, from recent observations made July 4 and 5, 1906, and recorded in "20", book Z, of this survey.

At 7h. 04m., a.m., l.m.t., I set off $38^{\circ}48'N.$ on iat. arc, $22^{\circ}41'N.$ on decl. arc, and determine a meridian with the solar, at the cor. of secs. 19 and 30, on the W. bdy. of the Tp., heretofore described.

Thence I run

East, on a true line,

Bet. secs. 19 and 30.

Descend through dense oak brush.

1.50 Head of hollow, course S.E.

Ascend.

11.00 Ridge, bears N. and S.

Abrupt descent.

19.00 Hollow, 150 ft. deep, course S.E.

Abrupt ascent.

26.00 Spur, projects S.

SUBDIVISIONS OF T.23 S., R.4 W.

CHAINS	Abrupt descent.
58.85	Allowing for convergency, Set a quartzite stone, 20x12x5 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
	Pits impracticable.
40.30	Hollow, 350 ft. deep, course S.E. Ascend abruptly over conglomerate ledges,
53.00	Rocky ridge, bears N.W. and S.E. Descend abruptly over rocky land.
78.85	Set a sandstone, 20x14x4 ins., 15 ins. in the ground, for cor. of secs. 19-20-29 and 30, marked with 2 notches on S. and 5 notches on E. edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Pits impracticable.
	Land, mountainous.
	Soil, rocky, 3rd. and 4th. rate.
	No timber.
	Mountainous land on 78.85 chs.
<hr/>	
Note:	The line bet. secs. 20 and 29, runs over broken, rocky country cut by box canons, I do not run this line.
<hr/>	
	N.0°03'W., bet. secs. 19 and 20.
	Descend over rocky land.
.75	Hollow, 400 ft. deep, course S.E.
	Abrupt ascent.
	Enter scattering mountain mahoganies.
6.85	Rocky spur, projects W.
	Abrupt descent.
11.50	Same hollow, 350 ft. deep, course S.W.
	Abrupt ascent.
26.00	Rocky spur, projects S.E.
	Enter scattering pine timber.

SUBDIVISIONS OF T.23 S., R.4 W.

CHAINS	
	Abrupt descent.
30.00	Sage hollow, 300 ft. deep, course S.E. Enter heavy aspen timber. Ascend.
40.00	Set a sandstone, 20x10x4 in., 15 in. in the ground, for sec.cor., marked \pm on E. face, from which An aspen, 4 in., diam., bears N.78°E., 4 lmn.dint., marked \pm S 20 N.T. An aspen, 5 in., diam., bears S.86°E., 6 lmn.dint., marked \pm S 19 N.T.
55.00	Leave timber, bears N.E. and S.E.
78.00	Enter heavy aspen and pine timber, bears E. and N.
80.00	Set a quartzite stone, 18x10x6 in., 10 in. in the ground, for cor. of sec. 17-18-19 and 20, marked with 3 notches on S. and 3 notches on N. edges, from which A pine, 24 in., diam., bears N.81°E., 48 lmn.dint., marked \pm S 23 S 11 4 E S 27 S T. A pine, 26 in., diam., bears S.80°E., 38 lmn.dint., marked \pm S 23 S 11 4 E S 29 S T. An aspen, 5 in., diam., bears S.48°E., 34 lmn.dint., marked \pm S 23 S 11 4 E S 19 S T. An aspen, 5 in., diam., bears N.20°E., 36 lmn.dint., marked \pm S 23 S 11 4 E S 14 S T.
	Land, mountainous.
	Soil, rocky, 3rd. and 4th. rate.
	Timber, aspen and pine.
	Mountainous land on 40.00 chm.
	July 7: At this cor. I set off 22°28' N. on decl. arc, and at 12h.04m., p.m., 1.M.L., observe the sun on the meridian, the resulting lat. is 38°40' N.

	West, on a random line, between 18 and 19.
40.00	Set temp. \pm sec.cor.
78.87	Intersect W.bdy. of Tp., 9 lmn.N. of the cor. of secy. 18 and 19, heretofore described.

TRANSITIONS OF 7.23 S., R.4 W.

CHAPTERS

Thence I run

N. $39^{\circ}56'W.$, on a true line,

Bet. secn. 18 and 19.

Ascent abruptly over rocky land, through heavy pine timber.

18.00 Mountain ridge, bears N.E. and S.W. 1000 ft. above sec. cor.

Leave timber, bears N.E. and S.W.

Descend abruptly through oak and mahogany.

19.01 Set a quartzite stone, 16x10x5 ins., 11 ins. in the ground, for 4 sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.

Pith impracticable.

49.50 Hollow, 600 ft. below ridge, course S.E.

Abrupt ascent.

50.00 Rocky spur, projectiv SE.

Abrupt descent.

75.02 Hollow, 300 ft. deep, course S.

Abrupt ascent.

Enter scattering aspen and pine timber.

78.01 The cor. of secn. 17-18-19 and 20.

Land, mountainous.

Soil, rocky, 3rd. and 4th. rate.

Timber, aspen and pine; undergrowth oak and mahogany.

Mountainous land on 78.01 chm.

July 7, 1900.

July 8: At 7h. 30m., a.m., 1. m.t., I set off $38^{\circ}40'N.$ on 1st. arc, $00^{\circ}54'W.$ on decl. arc, and determine a meridian with the solar, at the cor. of secn. 17-18-19 and 20.

Thence I run

N. $0^{\circ}03'W.$, bet. secn. 17 and 18.

Ascent along steep west slope, through heavy aspen and pine timber.

71.00 Spur, projectiv S.

SUBDIVISIONS OF T. 23 S., R. 4 W.

CHAINS

Descend.

25.00 Hollow, 300 ft. deep, course SW.

Leave timber, bears N.E. and SW.

Abrupt ascent.

31.00 Spur, projects SE.

Descend.

Enter heavy aspen timber, bears N.W. and S.E.

36.00 Hollow, 100 ft. deep, course S.E.

Ascend.

40.00 Set a sandstone, 18x10x4 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, from whichAn aspen, 4 ins. diam., bears S. 83° E., 6 lks. dist.,
marked $\frac{1}{4}$ S 17 B T.A pine, 36 ins. diam., bears N. 81° W., 94 lks. dist.,
marked $\frac{1}{4}$ S 18 B T.

42.00 Spur, projects E.

Descend.

53.00 Hollow, 200 ft. deep, course SE.

Abrupt ascent.

63.00 Enter scattering pine timber.

67.70 Ridge, bears N.W. and S.E.

Abrupt descent.

80.00 Set a sandstone, 18x12x10 ins., 12 ins. in the ground, for
cor. of secs. 7-8-17 and 18, marked with 4 notches on S.
and 5 notches on E. edges, from whichAn aspen, 10 ins. diam., bears N. 24° E., 39 lks. dist.,
marked T 23 S R 4 W S 8 B TAn aspen, 9 ins. diam., bears S. 83° E., 8 lks. dist.,
marked T 23 S R 4 W S 17 B T.An aspen, 12 ins. diam., bears S. 43° W., 9 lks. dist.,
marked T 23 S R 4 W S 18 B T.An aspen, 12 ins. diam., bears N. 7° W., 39 lks. dist.,
marked T 23 S R 4 W S 7 B T.

Land, mountainous.

SUBDIVISIONS OF T. 23 S., R. 4 W.

CHAINS

- Soil, rocky, 3rd. rate.
- Timber, aspen and pine.
- Mountainous land on 80.00 chs.
-
- S. 89° 56' W., on a random line, bet. secs. 7 and 18.
- 49.00 Set temp. $\frac{1}{4}$ sec. cor.
- 78.79 Intersect W. bdy. of Tp., 5 lks. N. of the cor. of secs. 7 and 18, heretofore described.
- Thence I run ✓
- N. 89° 54' E., on a true line,
- Bet. secs. 7 and 18.
- Ascend abruptly through heavy aspen timber.
- 1.75 Leave timber, bears N. and S.
- 8.50 Ridge, bears N.E. and S.W.
- Abrupt descent.
- 11.00 Enter scattering aspen timber.
- 24.00 North fork of Corn Creek Canon, 600 ft. deep, course S.W.
- Abrupt ascent.
- 27.00 Leave timber.
- 37.50 Enter heavy aspen timber, bears N.W. and S.E.
- 38.79 Set a sandstone, 24x7x6 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, from which
- An aspen, 15 ins. diam., bears S. 65° W., 17 lks. dist., marked $\frac{1}{4}$ S 12 B T.
- An aspen, 15 ins. diam., bears N. 51° W., 28 lks. dist., marked $\frac{1}{4}$ S 7 B T.
- 43.00 Leave timber, bears N. and S.
- 50.50 Mountain ridge, bears N. and S.
- Enter heavy aspen timber, bears N. and S.
- Abrupt descent.
- 78.79 The cor. of secs. 7-8-17 and 18..
- Land, mountainous.
- Soil, rocky, 3rd. rate.
- Timber, aspen.
- Mountainous land on 78.79 chs.

SUBDIVISIONS OF T.33 S., R.4 W.

CHAINS

July 8: At this cor. I set off $22^{\circ}32'N.$ on decl. arc, and at 12h.05m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is $38^{\circ}49'N.$

N. $0^{\circ}03'W.$, bet. secn. 7 and 8.

Descend abruptly through heavy aspen timber.

7.00 Hollow, 400 ft. deep, course S.E.

Abrupt ascent.

12.75 Leave timber, bears E. and W.

22.50 Ridge, bears N.W. and S.E.

Enter heavy aspen timber, bears N.W. and S.E.

Abrupt descent.

36.00 Hollow, 600 ft. deep, course S.E.

Leave timber, bears N.W. and S.E.

Abrupt ascent.

40.00 Set a quartzite stone, 20x13x5 in., 15 in. in the ground, for cor. of secn. 5-6-7 and 8, marked $\frac{1}{2}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Pits impracticable.

54.00 Ridge, bears N.W. and S.E.

Enter heavy aspen timber, bears N.W. and S.E.

Descend.

63.00 Hollow, 250 ft. deep, course S.E.

Abrupt ascent.

74.00 Leave timber, bears N.W. and S.E.

80.00 Set a quartzite stone, 20x12x8 in., 15 in. in the ground, for cor. of secn. 5-6-7 and 8, marked with 5 notches on S. and E. edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Pits impracticable.

Land, mountainous.

Soil, rocky, 3rd. rate.

Timber, aspen.

Mountainous land on 80.00 chn.

SUBDIVISIONS OF T. 23 S., R. 4 W.

CHAINES	July 9: At 7h. 05m., a.m., l.m.t., I set off $38^{\circ}50'N.$ on lat. arc, $22^{\circ}27'N.$ on decl. arc, and determine a meridian with the solar, at the cor. of secs. 5-6-7 and 8. Thence I run $S.89^{\circ}54'W.$, on a random line, bet. secs. 6 and 7.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
78.72	Intersect W. bdy. of Tp., 7 lks. S. of the cor. of secs. 6 and 7, heretofore described. Thence I run $N.89^{\circ}57'E.$, on a true line, Bet. secs. 6 and 7. Ascend abruptly over rocky land, through heavy pine timber.
10.00	Ridge, bears N.W. and S.E. Leave pine timber, enter heavy aspen timber. Abrupt descent.
29.00	Hollow, 300 ft. deep, course N. Abrupt ascent. Leave aspen timber, enter heavy pine timber.
38.72	Set a sandstone, 15x12x4 ins., 10 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, from which A pine, 12 ins. diam., bears $N.24^{\circ}W.$, 9 lks. dist., marked $\frac{1}{4}$ S 6 B T. A pine, 5 ins. diam., bears $S.71^{\circ}W.$, 21 lks. dist., marked $\frac{1}{4}$ S 7 B T.
44.50	Spur, projects N. Leave pine timber, enter heavy aspen timber. Abrupt descent.
51.50	Hollow, 500 ft. deep, course N.W. Abrupt ascent.
75.50	Leave timber, bears N.E. and S.W.
77.50	Mountain ridge, bears N.E. and S.W. Descend.
78.73	The cor. of secs. 5-6-7 and 8. Land, mountainous.

SUBDIVISIONS OF T.23.S., R.4 W.

CHAINS	Soil, rocky, 3rd. rate. Timber, aspen and pine. Mountainous land on 78.72 chs. ✓ July 9: At this cor. I set off 22°25' N. on decl. arc, and at 12h.05m., p.m., l.m.t., observe the sun. on the meridian, the resulting lat. is 38°50' N.
	Knowing the line bet. secs. 5 and 6 will not close within limits on the N.bdy. of the Tp., I run N.0°03'W., on a true line, Bet. secs. 5 and 6.
	Ascend over rocky land.
2.50	Mountain ridge, bears N.E. and S.W.
	Abrupt descent.
	Enter heavy aspen timber, bears N.E. and S.W.
32.00	Leave timber, bears E. and W.
	Descend over boulders and slide rock.
40.00	Set a limestone, 18x10x5 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Pits impracticable.
44.75	Bottom of Sunset Canon, 1200 ft. deep, course W.
	Ascend abruptly over broken and rocky land.
108.00	Ridge, bears N.W. and S.E.
	Descend.
145.80	Intersect N.bdy. of Tp., 31.08 chs. E. of the cor. of secs. 2-3-34 and 35, T.23 S., R.4 W., which is a granite stone, 12x10x8 ins. above the ground, marked and witnessed as described by the surveyor general.
	Set a limestone, 20x8x6 ins., 15 ins. in the ground, for closing cor. of secs. 5 and 6, marked CCon S., with 5 grooves on E. and 1 groove on W. faces, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S. of cor.
	Pits impracticable.

SUBDIVISIONS OF T.23 S., R.4 W.

CHAINS

I destroy all marks on the cor. of secs. 2-3-34 and 35,
that pertain to T.23 S.
Land, mountainous.
Soil, rocky, 3rd. and 4th. rate.
Timber, aspen.
Mountainous land on 145.80 chs.

July 9, 1906.

GENERAL DESCRIPTION

The portion of this township surveyed by me lies on the summit of the Pavant Range of mountains and the land is badly broken by deep hollows, which change to box canons after leaving this survey.

The soil is rocky and on the summit covered with a heavy growth of aspen and pine timber, on the slopes towards the breaks a dense growth of oak and mountain mahogany is found.

The only water found on this survey is in the north fork of Corn Creek.

There are no settlers on this survey.

3 miners cabins are found in SW $\frac{1}{4}$ of sec. 18 and several prospect holes, but no mineral in paying quantity has been found, I do not return any land on this survey as mineral land.

The portion of this township not surveyed falls in broken and rocky land, which land is unfit for grazing or any other purpose.

A complete description of unsurveyed portion is given at beginning of this book.

Harvey L. Frost
U.S. Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of _____ showing the respective capacities in which they acted:

_____, *Chainman.*
 For final affidavits see book "Z" ²⁹ Tp.23 S., R. 5 W. _____, *Chainman.*
 _____, *Moundman.*
 _____, *Moundman.*
 _____, *Axman.*
 _____, *Axman.*
 _____, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____, United States Deputy Surveyor, in surveying all those parts or portions of the _____ of the _____
 meridian, _____ of _____, which are represented

the foregoing field notes as having been surveyed by him and under his direction; and that said survey is been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor general for _____.

For final affidavits see book "Z" ²⁹ Tp.23 S., R. 5 W. _____, *Chainman.*
 _____, *Chainman.*
 _____, *Moundman.*
 _____, *Moundman.*
 _____, *Axman.*
 _____, *Axman.*
 _____, *Flagman.*

scribed and sworn to before me this _____ }
 day of _____, 190 _____ }



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from _____, bearing date of the United States Surveyor General for _____, day of _____, 190_____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____.
For final affidavit see book "Z" Tp. 23 S., R. 5 W.

of the _____
meridian, in the _____ of _____, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor.

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 190_____ }

SEAL

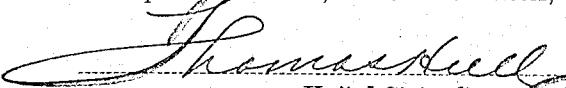
APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 18, 1907.

The foregoing field notes of the survey of the subdivisional lines of Township No. 23 S., Range No. 4 west of the Salt Lake Base and Meridian, Utah,

executed by Harvey D. Heist and Earl V. Woolley
under their contract No. 291, dated June 3, 1905, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.


United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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4-679.

W.M.Z.
8.2.5.

BOOK A-375

" 25 " Z

FIELD NOTES

OF THE SURVEY OF THE

WEST BOUNDARY

of

Township No. 23 South,

Range No. 4 $\frac{1}{2}$ West.

Of the Salt Lake Base and Meridian,

in the state of Utah

AS SURVEYED BY

Harvey D. Heist and Earl V. Woolley, United States Deputy Surveyors

their
dcr ~~for~~ Contract No. 291, dated June 3, 1905

Survey commenced July 21, 1906

Survey completed July 23, 1906

6-151

Length 502 59
City 400 "

NAMES AND DUTIES OF ASSISTANTS.

Walter A. Stumm, Chainman

Melvin D. Heist, "

Homer A. Shelley, Moundman

Horace L. Allred, Axman

Will L. White, Flagman

For preliminary affidavits see book "Z" Tp. 2 O S., R. 1 W.

BOOK A-375

INDEX DIAGRAM.

Township 8 $\frac{3}{4}$ South, Range 4 $\frac{1}{2}$ West

6	5	4	3	2	1	
7	8	9	6	10	11	12
18	17	16	5	15	14	13
19	20	21	5	29	28	24
30	29	28	3	27	26	25
31	32	33	2	34	35	36

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, and

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

....., Chainman.

....., Chainman.

Subscribed and sworn to before me this }
day of , 190 }



WE, and

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

....., Moundman.

....., Moundman.

Subscribed and sworn to before me this }
day of , 190 }



WE, and

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

....., Axman.

....., Axman.

Subscribed and sworn to before me this }
day of , 190 }



I, , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

....., Flagman.

Subscribed and sworn to before me this }
day of , 190 }



WEST BOUNDARY OF T.23 S., R.4 $\frac{1}{2}$ W.

CHAINS

Survey commenced, July 21, 1906, and executed with the instrument described in book "A", of this survey. I examine the adjustments of the transit, and correct the level and collimation errors; then to test the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

I begin at the cor. of secs. 1 and 12, on the east bdy. of T.23 S., R.5 W., which is a sandstone, 14x7x7 ins. above ground, marked and witnessed as described by the surveyor general, in approximate latitude 38°51' N., longitude 112°24' W.

At 4h.06m., p.m., l.m.t., I set off 38°51' N. on lat.arc, 20° 32' N. on decl.arc, and determine a meridian with the solar and mark a point thereof on a stone, firmly set in the ground, 5 chs.N. of the cor.

At 11h.34m., p.m., l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined on a peg, driven in the ground, 5 chs.N. of my station.

July 21, 1906.

July 22:

At 7h.30m., a.m., I lay off the azimuth of Polaris, 1°32' to the west and mark the meridian thus determined by cutting a small groove in the stone set last evening, on which the meridian falls 0.4 ins. east of the mark determined by the solar.

At 7h.06m., a.m., l.m.t., I set off 38°51' N. on lat.arc, 20° 25' N. on decl.arc, and mark a point in the meridian determined with the solar, by a cross on the stone, already set 5 chs.N. of my station; this mark falls 0.5 ins. east of the meridian established by the Polaris observation. The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, about respectively 0'21" west

WEST BDY.OF T.23 S.,R.4 $\frac{1}{2}$ W.

CHAINS

and 0'26" east of the meridian established by the Polaris observation; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 7h.15m., a.m. is N.16°20'W., the angle thus determined gives the mag. decl.16°20'E.

Thence I run

South on random line, along west bdy.of Tp., setting temp. $\frac{1}{4}$ sec. and sec. cor.s. at intervals of 40.00 chs., and at 400.15 chs., intersect the N.bdy.of T.24 S., R.4 $\frac{1}{2}$ W., 4.00 chs. west of the $\frac{1}{4}$ sec.cor.bet.secs.4 and 33, heretofore described.

Set a sandstone, 18x6x6 ins., 12 ins. in the ground, for closing cor. for Tp.23 S., Rs.4 $\frac{1}{2}$ and 5 W., marked CC 23 S., on N., 4 $\frac{1}{2}$ W on E. and 5 W., on W. face, with 6 grooves on N.E. and W. faces, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.

Pits impracticable.

July 22, 1906.

July 23: At 7h.06m., a.m., 1.mt., I set off 38°47'N.on lat. arc, 20°13'N.on decl.arc, and determine a meridian with the solar, at the closing cor.of Tp.23 S., Rs.4 $\frac{1}{2}$ and 5 W.

Thence I run

North, bet.secs.33 and 36.

Descend abruptly over rocky land, through dense oak and mahogany brush.

9.00 Hollow, 200 ft. deep, course W.

Abrupt ascent.

14.00 Rocky spur, projects S.W.

Abrupt descent.

26.00 Hollow, 300 ft. deep, course W.

Abrupt ascent.

WEST Bdy. of T. 32 S., R. 4 $\frac{1}{2}$ W.

CHAINS

- 11.50 Ridge, bears N.E. and S.W.
Abrupt descent.
- 13.00 Begin abrupt descent over slide rock.
- 14.00 Point for $\frac{1}{2}$ sec.cor. falls on slide rock and cannot be set.
- 14.24 Set a sandstone, 20x7x4 in., 15 in. in the ground, for witness cor. to $\frac{1}{2}$ sec.cor., marked E C $\frac{1}{2}$ on E. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pit impractical.
- 15.00 Hollow, 370 ft. deep, course S.E.
Abrupt ascent.
- 16.50 Rocky spur, projects E.
Abrupt descent.
- 17.00 Hollow, 200 ft. deep, course N.
Ascent abruptly over slide rock.
- 18.00 Point for cor. falls on rock slide and cannot be set.
- 18.44 Rocky spur, projects E.
Set a sandstone, 40x16x6 in., 20 in. in the ground, for witness cor. to cor. of sec. 25-28-33 and 36, marked E C on N.E. face, and with 1 notch on S. and 5 notches on N. edges, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pit impractical.
- Land, mountainous.
Soil, rocky, 3rd. and 4th. rate.
No timber: undergrowth, oak and mahogany.
- Mountainous land on 80.44 ahs.
-
- From the witness cor. to near. 25-28-33 and 36, I run counting from the true point for cor.
- North, bet. near. 25 and 28.
- Descent abruptly over rocky land, through scattering oak brush.
- 18.00 Enter Corn Creek Canon, 1000 ft. deep, course S.W.
- 19.25 North fork of Corn Creek, 15 lms. wide, 6 inn. deep, course S.W.
- 11.30 Pond, bears N.E. and S.W.
- 13.00 Leave canon, begin abrupt ascent.

WEST BDY.OF T.24 S., R.4 $\frac{1}{2}$.W.

CHAINS	
17.00	Rocky spur, projects E. Abrupt descent.
29.00	Hollow, 100 ft. deep, course S.E. Abrupt ascent. ✓
40.00	Set a sandstone, 20x12x4 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W.of cor. Pits impracticable.
50.00	Spur, projects S.E. Descend.
58.40	Hollow, 100 ft. deep, course S.E. Abrupt ascent.
73.00	Rocky spur, projects E. Descend.
78.75	Hollow, 50 ft. deep, course E. Ascend. Enter scattering cedar timber.
80.00	Set a sandstone, 20x8x6 ins., 15 ins. in the ground, for cor. of secs. 21-24-25 and 28, marked with 2 notches on S. and 4 notches on N.edges, from which A cedar, 10 ins. diam., bears S.3° E., 3 lks.dist., marked T 23 S., R.4 $\frac{1}{2}$ W., S.28 B.T. A cedar, 10 ins. diam., bears S.39° W., 25 lks.dist., marked T 23 S R 5 W S 25 B T. No other trees within limits, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W.of cor. Pits impracticable. Land, mountainous. Soil, rocky, 3rd. rate. Timber, cedar and pinon; undergrowth, oak and mahoganies. Mountainous land on 80.00 chs.

West Bdy. of T.23 S., R.4 $\frac{1}{4}$ W.

CHAINS	North, bet. secs. 21 and 24. Ascend over rocky land, through scattering cedar and pinon timber.
25.00	Ridge, bears S.W. and N. Ascend along top of ridge.
40.00	Set a sandstone, 20x8x6 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, from which A cedar, 24 ins. diam., bears N. 15° E., 43 lks. dist., marked $\frac{1}{4}$ S 21 B T. A cedar, 6 ins. diam., bears N. 42° W., 18 lks. dist., marked $\frac{1}{4}$ S 24 B T.
65.00	Ridge, bears E. and W. and junction of ridge, from S. Leave timber. Descend.
72.00	Begin abrupt descent over rocky land, bearing N.W. and S.E.
80.00	Set a sandstone, 28x10x5 ins., 21 ins. in the ground, for cor. of secs. 13-16-21 and 24, marked with 3 notches on N. and S. edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, rocky, 3rd. and 4th. rate. Timber, cedar and pinon. Mountainous land on 80.00 chs.
	July 23: At this cor. I set off 20° 10' N. on decl. arc, and at 12h. 06m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 38° 49' N.
	North, bet. secs. 13 and 16. Descend abruptly over rocky land, through dense oak brush. Spring branch, 1 lk. wide, in Cottonwood canon, 700 ft. deep, course W. Junction with hollow from S.E. Abrupt ascent.
11.00	

WEST BDY. OF T. 23 S., R. 4 $\frac{1}{2}$ W.

CHAINS	
40.00	Top of ridge, bears N.E. and S.W. Set a sandstone, 24x10x6 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Descend.
41.00	Begin abrupt descent over broken and rocky land, bearing N.E. and S.W.
80.00	Set a sandstone, 20x8x6 ins., 15 ins. in the ground, for cor. of secs. 9-12-13 and 16, marked with 4 notches on S. and 2 notches on N. edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, rocky, 3rd. and 4th. rate. No timber; undergrowth, sage, oak and maples. Mountainous land on 80.00 chs.
3.00	North, bet. secs. 9 and 12. Descend over rocky land, through dense oak and maple brush.
34.00	Little Cottonwood Canon, 400 ft. deep, course W. Abrupt ascent.
40.00	Rocky ridge, bears E. and W. Abrupt descent.
42.00	Set a sandstone, 20x12x9 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
62.00	Hollow, 300 ft. deep, course N.W. Abrupt ascent.
	Ridge, bears E. and W. Descend. Enter scattering cedar and pinon timber.

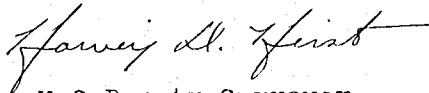
-7-

WEST Bdry. OF T. 23 S., R. 4 $\frac{1}{2}$ W.

- Chains.
69.00 Hollow, 150 ft. deep, course W.
Ascend.
77.00 Ridge bears E. and W.
Descend.
80.15 The cor. of secs. 1, 6, 7, and 12, which will now be the
cor. of secs. 1, 4, 9, and 12; I change the marking on
the trees to correspond.
Land mountainous.
Soil rocky; 3rd and 4th rate.
Timber cedar and pinon; undergrowth sage, oak, and
maples.
Mountainous land on 80.15 chs.

July 23, 1906.

For general description see subdivision of T. 23
S., R. 4 $\frac{1}{2}$ W.


U.S. Deputy Surveyor.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Harvey D. Heist,
 United States Deputy Surveyor, to assist in running, measuring, and
 marking the lines and corners described in the foregoing field notes of the survey of the N. bdys. of
Tps. 20 S., Rs. 1 and 2 W.; E. bdy. Tp. 19 S. R. 2 W.; N. bdy. Tp. 19 S. R. 1 W.; W.
dy. Tp. 23 S., R. 4 W.; N. bdy. Tp. 24 S., R. 4½ W.; and E. and W. bdys. Tp. 23 S.
4½ W. of the Salt Lake Base and Meridian, Utah,
 giving the respective capacities in which they acted:

Chairman Walter A. Stumm, Chairman.

Melvin D. Heist, Chairman.

Homer A. Shelley, Moundman.

Moundman.

Horace L. Allred, Axman.

Axman.

Will L. White, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Harvey D. Heist,
 United States Deputy Surveyor, in surveying all
 parts or portions of the the N. bdys. of Tps. 20 S., Rs. 1 and 2 W.; E. bdy. Tp.
S., R. 2 W.; Tp. 19 S., R. 1 W.; Tp. 23 S., R. 4 W.; Tp. 24 S., R. 4½ W.
E. and W. bdys. Tp. 23 S., R. 4½ W.

of the Salt Lake

Base and meridian, State of Utah, which are represented
 in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
 has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
 corner monuments established, according to the instructions furnished by the United States Surveyor
 General for Utah.

Chairman.

Chairman.

Moundman.

Moundman.

Axman.

Axman.

Flagman.

scribed and sworn to before me this 24th }
 day of July, 1906. }

Harvey D. Heist
U.S. Deputy Surveyor.

8 SEAL 8
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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Harvey D. Heist, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for Utah, bearing date of the 3d day of June, 1905, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the N.bdy. Tp.20 S., R.s.1 and 2 W.; E.bdy. Tp.19 S., R. 2 W.; N.bdy. Tp.19 S., R. 1 W.; Tp.23 S., R. 4 W.; N.bdy. Tp.24 S., R. 4½ W.; and E. and W.bdys. Tp.23 S., R. 4½ W.

Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Harvey D. Heist
United States Deputy Surveyor.

Subscribed by said Harvey D. Heist, and sworn to before me
this 17th day of October, 1906.

SEAL
U.S. Surveyor-General

Thomas Bell
U.S. Surveyor-General

for Utah.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 18, 1907.

The foregoing field notes of the survey of the West Boundary of Township No. 23 South, Range No. 4½ West of the Salt Lake Base and Meridian. Utah,

executed by Harvey D. Heist and Earl V. Woolley under his contract No. 291, dated June 3, 1905, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Bell
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in, has been correctly copied from the original notes on file in this office.

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BOOK A-375

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J.B.
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FIELD NOTES

OF RESURVEY OF PART OF

W-E-S-T B-O-U-N-D-A-R-Y O-F

Township No. 23 South,

Range No. 4 $\frac{1}{2}$ West,

Of the Salt Lake Base and Meridian,

in the state of Utah

AS SURVEYED BY

Harvey D. Heist and Earl V. Woolley, United States Deputy Surveyor,
their Contract No. 291, dated June 3, 1905

Survey commenced July 25, 1906

Survey completed July 25, 1906

Done 100. 95-

NAMES AND DUTIES OF ASSISTANTS.

Walter A. Stumm, Chainman

Melvin D. Heist, "

Homer A. Shelley, Moundman

Horace L. Allred, Axman

Will L. White Flagman

For preliminary affidavits see book "Y" Tp. 2 O S., R. 1 W.

BOOK A-375

INDEX DIAGRAM.

Township..... 23 South .. Range..... 4 $\frac{1}{2}$ West.....

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31	32	33	34	35	36	37

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, _____ and _____

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

_____, Chainman.

_____, Chainman.

Subscribed and sworn to before me this _____
day of _____, 190_____



WE, _____ and _____

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

_____, Moundman.

_____, Moundman.

Subscribed and sworn to before me this _____
day of _____, 190_____



WE, _____ and _____

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

_____, Axman.

_____, Axman.

Subscribed and sworn to before me this _____
day of _____, 190_____



I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

_____, Flagman.

Subscribed and sworn to before me this _____
day of _____, 190_____



RESURVEY OF PART OF WEST BDY. OF T. 23 S., R. 4 $\frac{1}{2}$ W.

CHAINS

Survey commenced July 25, 1906, and executed with the instrument described in book "A", of this survey.

I know the instrument to be in adjustment from recent observations made, July 21 and 22, 1906, and recorded in "25" book Z, of this survey.

At 7h. 06m. a.m., 1.m.t., I set off 38° 51' N. on lat. arc, 19° 48' N. on decl. arc, and determine a meridian with the solar, at the cor. of secs. 1-4-9 and 12, heretofore described.

Thence I run

North, resurveying bet. secs. 1 and 4.

Descend abruptly over rocky land, through dense oak brush and scattering cedar and pinon timber.

19.50 Hollow, 150 ft. deep, course W.

Abrupt ascent.

26.00 Rocky ridge, bears E. and W.

Leave timber.

Descend abruptly over slide rock.

36.00 Sunset Creek, 10 lks. wide, 4 ins. deep, in Sunset Canon, 1000 ft. deep, course W.

Ascend abruptly.

^{2.50}
40.77 43.62 Fall ^{2.50} 3.14 chs. W. of the $\frac{1}{4}$ sec. ^{cor.} bet. secs. 1 and 6, which is a sandstone, 18x10x9 ins. lying on the ground, with no mound or bearing trees.

I set same stone at same point for reestablished $\frac{1}{4}$ sec. cor. bet. secs. 1 and 4, marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

Pits impracticable.

The course of this line is therefore N. 4° 07' E. and the distance ^{3° 51'} _{40.165} 43.73 chs.

I offset over the $\frac{1}{4}$ sec. cor. and continue my line north bet. secs. 1 and 4.

Ascend over rocky land.

4.00 Ridge, bears N. E. and S. W.

Descend.

10.00 Hollow, 100 ft. deep, course S. W.

RESURVEY OF PART OF WEST BDY. OF T. 23 S., R. 4 $\frac{1}{2}$ W.

HAINS	Ascend.
6.00	Spur, projects S.W.
	Descend.
3.00	Head of hollow, course S.W.
	Abrupt ascent.
0.19 0.22	Fall ⁵⁴ E lks. W. of the cor. of Tps. 22 and 23 S., Rs. 4 and 5 W., which is a sandstone, 18x14x7 ins. above ground, marked and witnessed as described by the surveyor general.
	The course of this line is therefore ^{N. 0° 46' W.} N. 0° 35' E. , and the distance ^{40.49} 40.32 chs.
	Land, mountainous.
	Soil, rocky; 3rd. and 4th. rate.
	Timber, scattering cedars, and pinons; undergrowth, oak.
	Mountainous land on ^{81.04} 83.95 chs.

July 25, 1906.

BOUNDARIES OF T. 23 S. R. 4 $\frac{1}{2}$ W.

LATITUDES, DEPARTURES AND CLOSING ERRORS.

ne nated	True Bearing	Distance	Latitudes		Departures	
			N.	S.	E.	W.
		Chs.	Chs.	Chs.	Chs.	
	North	400.15	400.15			
	N. 3° 31' E.	40.85	40.77		2.30	
	N. 4° 07' P.	43.73	43.62		3.14	
	N. 0° 46' W.	40.19	40.19			
	N. 0° 35' E.	40.22	40.22		.41	54
	East	280.50			280.50	
	South	484.53		484.53		
	West	284.00			284.00	
rgency					.34	
		483.99	484.53	284.59	284.00	
		481.71		283.67		
				284.00	284.54	
	Error in lat. and dep.			280.54	0.59	283.74
				3.42		1.40

or general description see subdivisions of T. 23 S., R. 4 $\frac{1}{2}$ W.

James H. Spirt
U.S. Deputy Surveyor

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Harvey D. Heist, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the N.bdy.T. 20 S., R. 1 W.; N.bdy.T.20 S., R. 2 W.; S.bdys.Tps.18 and 19 S., R.2 W. bdy.T.19 S., R.1 W.; and W.bdy.T.23 S., R.4½ W.of the Salt Lake Base and Meridian, Utah, showing the respective capacities in which they acted:

Walter A. Stumm *Chairman.*

Melvin D. Heist *Chairman.*

..... *Moundman.*

Homer A. Shelley *Moundman.*

Horace L. Allred *Axman.*

..... *Axman.*

Will L. White *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Harvey D. Heist, United States Deputy Surveyor, in surveying all those parts or portions of the the N.bdy.T.20 S., R. 1 W.; N.bdy.T.20 S., R. 2 S.bdys.Tps.18 and 19 S., R. 2 W.; N.bdy.T.19 S., R. 1 W.; and W.bdy.T.23 S., R. 4½ W.of the Salt Lake Base and Meridian

of the

meridian, State of Utah, which are represented in the foregoing field notes as having been ^{re}surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully ^{re}surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for

Utah

Walter A. Stumm *Chairman.*

Melvin D. Heist *Chairman.*

..... *Moundman.*

Horace L. Allred *Axman.*

..... *Axman.*

Will L. White *Flagman.*

scribed and sworn to before me this 25th day of July, 190 6.

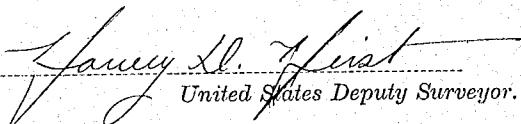
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Harvey D. Heist
U.S. Deputy Surveyor.

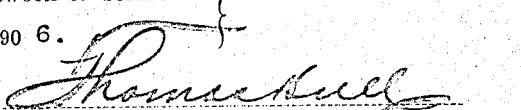
FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Harvey D. Heist, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for U t a h, bearing date of the 3d day of June, 1905, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for U t a h, the Manual of Surveying Instructions, and the laws of the United States, ^{re} surveyed all those parts or portions of the N. bdy. T. 20. S., R. 1. W.; N. bdy. T. 20. S., R. 2. W.; S. bdy. Tps. 18 and 19. S., R. 2. W.; M. bdy. T. 19. S., R. 1. W.; and W. bdy. T. 23. S., R. 4½ W.

of the Salt Lake
Base and ^{re} meridian, in the State of Utah, which are represented in the books Z₁, Z₂, Z₃, Z₄, Z₅, Z₆, having been ^{re} surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said ^{re} survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such ^{re} survey.


United States Deputy Surveyor

Subscribed by said Harvey D. Heist, and sworn to before me
this 17th day of October, 1906.


U.S. Surveyor-General

for Utah.

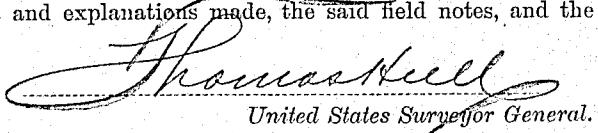
APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 18, 1907.

The foregoing field notes of the survey of ^{re} the West Boundary of Township No. 23 South, Range No. 4½ West of the Salt Lake Base and Meridian, Utah,

executed by Harvey D. Heist and Earl V. Woolley
their 291, dated June 3, 1905, having been
under his contract No. 291, dated June 3, 1905, having been
critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.


United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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BOOK A-375

M.M.D.
J.L.S.B.FILED
OCT 17 1906

FIELD NOTES

RE
OF THE SURVEY OF THE

S-U-B-D-L-V-I-S-I-O-N-S

of

Township No. 23 South,

Range No. 5 West,

Of the Salt Lake Base and Meridian,

in the state of Utah

AS SURVEYED BY

Harvey D. Heist and Earl V. Woolley, United States Deputy Surveyors

their Contract No. 291, dated June 3, 1905

Survey commenced August 2, 1906

Survey completed August 4, 1906

Length 00 40 00'
 Bottom 8 31 10'

NAMES AND DUTIES OF ASSISTANTS.

Walter A. Stumm, Chainman

Melvin D. Heist, "

Homer A. Shelley, Mouthman

Horace L. Allred, Axman

Will L. White, Flagman

For preliminary affidavits see book "Z¹" Tp. 20 S., R. 1 W.

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INDEX DIAGRAM.

Township 23 South, Range 5 West

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Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

WE, _____ and _____

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

_____, Chainman

_____, Chainman

Subscribed and sworn to before me this _____
day of _____, 190 _____ }



WE, _____ and _____

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

_____, Moundman

_____, Moundman

Subscribed and sworn to before me this _____
day of _____, 190 _____ }



WE, _____ and _____

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

_____, Axman

_____, Axman

Subscribed and sworn to before me this _____
day of _____, 190 _____ }



I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

_____, Flagman

Subscribed and sworn to before me this _____
day of _____, 190 _____ }



RESURVEY OF SUBDIVISIONS OF T. 23 S., R. 5 W.

Survey commenced, August, 2, 1906, and executed with the instrument described in book "A", of this survey. I examine the adjustments of the transit, and correct the level and collimation errors; then to test the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

I begin at the cor. of secs. 33 and 34, on the S. bdy. of the Tp., which is a sandstone, 11x8x4 ins. above ground, marked and witnessed as described by the surveyor general, in approximate latitude $38^{\circ}47'N.$, longitude $112^{\circ}27'W.$

At 4h.06m., p.m., l.m.t., I set off $38^{\circ}47'N.$ on lat.arc, $17^{\circ}50'N.$ on decl.arc, and determine a meridian with the solar, and mark a point thereof on a stone, firmly set in the ground, 5 chs. N. of the cor.

At 10h. 47m., p.m., l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined on a peg driven in the ground, 5 chs. N. of my station.

August 2, 1906

August 3: At 6h.30m., a.m., I lay off the azimuth of polaris $1^{\circ}32'$ to the west and mark the meridian thus determined by cutting a small groove in the stone, set last evening, on which the meridian falls 0.4 ins. east of the mark determined by the solar.

At 7h.06'a.m., l.m.t., I set off $38^{\circ}47'N.$ on lat.arc, $17^{\circ}41'N.$ on decl.arc, and mark a point in the meridian determined with the solar, by a cross on the stone, already set 5 chs. N. of my station: this mark falls 0.5 ins. east of the meridian established by the Polaris observation.

The solar apparatus by p.m. and a.m. observations, defines positions for meridians, respectively about $0'21''$ west and $0'26''$ east of the meridian established by the Polaris observation; therefore I conclude that the adjustments

RESURVEY OF . . . SUBDIVISIONS OF T.25 S., R.~~S~~ W.

CHAINS

of the instrument are satisfactory.

The magnetic bearing of the true meridian at 7h.15m., a.m., is N.16°23'W., the angle thus determined gives the mag.decl.16°23'E.

From the cor.already described, I run

North, resurveying bet.secs.33 and 34.

Descend over rolling and rocky land, through dense sage and oak brush.

38.84 Fall 2.94 chs.W.of the $\frac{1}{4}$ sec.cor.bet.secs.33 and 34, which is a sandstone, 10x7x6 ins.above ground, marked and witnessed as described by the surveyor general, with no mound of stone; I raise a mound of stone, 2 ft.base, $1\frac{1}{2}$ ft.high, W.of cor. Pits impracticable.

The course of this line is therefore N.4°19'E., and the distance 38.96 chs.

I offset over the $\frac{1}{4}$ sec.cor. and continue north,

32.53 Fall 57 lks.W.of the closing cor.of secs.33 and 34, on S. Bdy.of late Corn Creek Indian Reservation, which is a sandstone, 8x6x4 ins.above ground, marked and witnessed as described by the surveyor general.

40.03 Fall 70 lks.W.of the cor.of secs.27-28-33 and 34, which is a sandstone, 10x6x6 ins.above ground, marked and witnessed as described by the surveyor general. The course of this line is therefore N.1°00'E., and the distance 40.04 chs.

Land, rolling.

Soil, rocky, 3rd.rate.

No timber; undergrowth, oak and mahoganies.

Dense undergrowth on 79.00 chs.

East, resurveying bet.secs.27 and 34.

Descend through dense oak and sage brush.

36.50 Wash, 1.00 ch.wide, 20 ft.deep, course N.

38.50 Rocky spur, projects N.

Descend.

RESURVEY OF SUBDIVISIONS OF T. 23 S., R. 5 W.

CHAINS

- 39.70 Fall 1.24 chs. N. of the $\frac{1}{4}$ sec.cor.betsecs. 27 and 34, which is a sandstone, 18x10x5 ins. above ground, with no mound of stone, marked and described as described by surveyor general, from which
 A cedar 5 ins. diam., bears S.21°E., 40 lks.dist.,
 marked $\frac{1}{4}$ S 34 B. T.
 A cedar, 4 ins. diam., bears N.56°W., 54 lks.dist.,
 marked $\frac{1}{4}$ S 27 B. T.
 The course of this line is therefore S.88°13'E., and the distance 39.72 chs.
 I offset over $\frac{1}{4}$ sec.cor. and continue east.
- .25 Mouth of hollow, from south.
 Enter bottom of Corn Creek canon, course N.W.
- 4.25 Road from Kanosh to Sevier Valley, bears N.W. and S.E.
- 12.00 Enter heavy cottonwood timber, bears N.W. and S.E.
- 15.25 Corn Creek, 25 lks.wide, 8 ins.deep, course N.W.
- 18.00 Leave timber, bears N.W. and S.E.
- 19.50 Leave canon, begin abrupt rocky ascent, bears NW and SE.
- 22.50 Rocky spur, projects S.
 Descend.
- 25.00 Hollow, 100 ft. deep, course S.W.
 Ascend abruptly along steep rocky north slope.
- 38.72 Fall 1.52 chs. S. of the cor.of secs. 26-27-34 and 35, which is a limestone, 20x18x9 ins. above ground, marked as described by surveyor general, with no mound of stone.
 I raise a mound of stone, 2 ft.base, $1\frac{1}{2}$ ft.high, W. of cor.
 Pits impracticable.
 The course of this line is therefore N.87°45'E., and the distance 38.75 chs.
 Land, mountainous. and rolling.
 Soil, canon bottom on 38.50 chs., 2nd. rate.
 balance rocky, 3rd. rate.
 Timber, cottonwood; undergrowth, sage and oak.
 Mountainous land or dense undergrowth on 78.47 chs.
-
- North, resurveying bet.secs. 26 and 27.
 Descend over rocky land, through dense sage and oak brush

RESURVEY OF SUBDIVISIONS OF T. 23 S., R 5 W.

CHAINS	
3.00	Hollow, 150 ft. deep, course W. Abrupt ascent.
13.75	Ridge, bears E. and W. Abrupt descent.
20.00	Hollow, 100 ft. deep, course W. Abrupt ascent.
27.50	Ridge, bears E. and W. Descend.
31.50	Hollow, 100 ft. deep, course N.W. Ascend.
39.00	Ridge, bears E. and W. Descend.
40.05	Fall 30 lks. W. of the $\frac{1}{4}$ sec. cor. bet. secs. 26 and 27, which is a limestone, 10x8x6 ins. above ground, marked as described by the surveyor general, with no mound of stone. I raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. The course of this line is therefore N. 0° 26' E., and the distance 40.05 chs. I offset over the $\frac{1}{4}$ sec. cor. and continue north
10.50	Hollow, 100 ft. deep, course W. Ascend.
14.00	Ridge, bears E. and W. Descend.
24.50	Hollow, 75 ft. deep, course W. Ascend.
36.00	Ridge, bears N.W. and S.E. Descend.
40.10	Fall 1.10 chs. W. of the cor. of secs. 22-23-26 and 27, which is a quartzite stone, 14x9x7 ins. above ground, marked as described by the surveyor general, with no mound of stone. The course of this line is therefore N. 1° 35' E. and dist. 40.12 chs. I raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, rocky, 3rd. rate.

RESURVEY OF SUBDIVISIONS OF T.23 S., R.5 W.

CHAINS	No timber: undergrowth, sage and oak. Mountainous land on 80.17 chs. August 3: At this cor. I set off $17^{\circ}37'N$. on decl. arc, and at 12h.06m., p.m., l.m.t., observe the sun on the meridian the resulting lat. is $38^{\circ}48'N$.
	----- East, resurveying bet. secs. 23 and 26. Descend through dense sage and oak brush.
7.50	Hollow, 50 ft. deep, course N.W. Abrupt ascent.
23.00	Ridge, bears N.W. and E. Ascend along top of ridge.
32.00	Leave ridge, bears W. and S.E. Descend.
37.00	Head of hollow, course N.W. Ascend along steep north slope.
40.00	Fall 9 lks. S. of the $\frac{1}{4}$ sec. cor. bet. secs. 23 and 26, which is a quartzite stone, 11x9x7 ins. above ground, marked as described by the surveyor general, with no mound of stone. I raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable. The course of this line is therefore $N.89^{\circ}52'E$. and the distance 40.00 chs. Land, mountainous. Soil, rocky, 3rd. rate. No timber: undergrowth, oak and sage. Mountainous land on 40.00 chs.
	----- From the cor. of secs. 22-23-26 and 27, I run North, resurveying bet. secs. 22 and 23. Descend through dense oak and sage brush.
8.00	Hollow, 75 ft. deep, course N.W. Ascend.
11.00	Spur, projects W. Descend.
20.50	Hollow, 75 ft. deep, course W.

RESURVEY OF SUBDIVISIONS OF T.23 S., R.5 W.

CHAINS	
	Ascend.
25.50	Spur, projects W.
	Descend.
29.50	Hollow, 50 ft. deep, course W.
	Ascend.
35.00	Ridge, bears E. and W.
	Descend.
40.03	Fall 1.50 chs. W. of the $\frac{1}{4}$ sec. cor. bet. secs. 22 and 23, which is a limestone, 12x5x5 ins above ground, marked as described by the surveyor general, with no mound of stone, I raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. The course of this line is therefore N.2°09'E., and the distance 40.06 chs. I offset over the $\frac{1}{4}$ sec. cor. and continue north Descend over rolling land.
33.50	Wash, 15 lks. wide, 10 ft. deep, course W..
40.08	Fall 59 lks. W. of the cor. of secs. 14-15-22 and 23, which is a limestone, 12x7x4 ins. above ground, marked as described by the surveyor general, with no mound of stone. I raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft high, W. of cor. Pits impracticable. The course of this line is therefore N.0°51'E., and the dist. 40.09 chs. Land, rolling and mountainous. Soil, rocky, 3rd. rate. No timber; undergrowth sage and oak. Dense undergrowth on 80.15 chs.
	East, resurveying bet. secs. 14 and 23. Ascend through dense sage brush.
24.00	Ridge, bears N.W. and S.E. Descend.
36.50	Hollow, 150 ft. deep, course N.W. Ascend.

RESURVEY OF SUBDIVISIONS OF T.23 S., R.5 W.

CHAINS	RECORD
40.05	Fall 74 lks. S. of the $\frac{1}{4}$ sec. cor. bet. secs. 14 and 23, which is a quartzite stone, 20x15x6 ins. above ground, marked as described by the surveyor general, with no mound of stone. I raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable. The course of this line is therefore N. $88^{\circ}56'$ E., and the distance 40.06 chs. I offset over the $\frac{1}{4}$ sec. cor. and continue East.
10.00	Begin abrupt ascent, bears N.E. and S.W.
29.50	Rocky spur, projects N.W. Descend, through scattering pinon timber.
31.50	Hollow, 75 ft. deep, course N.W. Leave timber, abrupt ascent.
36.13	Fall 74 lks. N. of the cor. of secs. 13-14-23 and 24, which is a sandstone, 26x18x12 ins. above ground, marked as described by the surveyor general, with no witness trees or mound. I raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. The course of this line is therefore S. $88^{\circ}49'$ E. and the distance 36.14 chs. Land, mountainous. Soil, rocky, 3rd. rate. Timber, cedar and pinon. Mountainous land on 76.20 chs.
	August 3, 1906.

	August 4: At 7h. 06m., a.m., 1.m.t., I set off $38^{\circ}49'$ N. on lat. arc, $17^{\circ}25'$ N. on decl. arc, and determine a meridian with the solar at the cor. of secs. 13-14-23 and 24. Thence I run North, resurveying bet. secs. 13 and 14. Descend abruptly over rocky land, through dense oak and sage brush. Enter Cottonwood Canon, 200 ft. deep, course W. Canon road, bears E. and W. Cottonwood Creek, 2 lks. wide, 2 ins. deep, course W.

RESURVEY OF SUBDIVISIONS OF T. 23 S., R. 5 W.

CHAINS

- 16.50 Leave canon, begin abrupt ascent, bears N.W. and S.E.
- 39.56 Fall 1.40 chs. W. of the $\frac{1}{4}$ sec. cor. bet. secs. 13 and 14, which is a sandstone, 20x15x5 ins. above ground, marked as described by the surveyor general, with no mound of stone.
I raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
Pits impracticable.
The course of this line is therefore N. $2^{\circ}02'$ E., and the distance 39.59 chs.
I offset over the $\frac{1}{4}$ sec. cor. and continue north
- 4.00 Ridge, bears E. and W.
Descend.
- 8.65 Hollow, 50 ft. deep, course W.
Ascend.
- 15.00 Spur, projects W.
Descend.
Enter scattering cedar timber.
- 40.02 Fall 3.45 chs. W. of the cor. of secs. 11-12-13 and 14, which is a sandstone, 15x12x5 ins. above ground, marked as described by the surveyor general, with no bearing trees or mound of stone; from which
- A cedar 10 ins. diam., bears S. 18° E., 33 lks. dist., marked T 23 S R 5 W S 13 B T.
- A cedar, 10 ins. diam., bears S. 73° W., 59 lks. dist., marked T 23 S R 5 W S 14 B T.
- No other trees within limits, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
Pits impracticable.
The course of this line is therefore N. $4^{\circ}56'$ E., and the distance 40.17 chs.
Land, mountainous.
Soil, rocky, 3rd. rate.
Timber, cedars. Undergrowth sage, oak and maple.
Mountainous land on 79.76 chs.
-
- East, resurveying bet. secs. 12 and 13.
Ascend over rocky land, through dense sage and oak brush.

RESURVEY OF SUBDIVISIONS OF T.23 S., R.5 W.

CHAINS	
10.50	Begin abrupt ascent, bears N. and S.
40.00	No trace can be found of the $\frac{1}{4}$ sec.cor. Set a limestone, 20x10x6 ins., 15 ins. in the ground, for reestablished $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable. This cor. is set 450 ft. above cor. of secs. 11-12-13 and 14. Land, mountainous. Soil, rocky, 3rd. rate. No timber; undergrowth, sage and oak. Mountainous land on 40.00 chs.
6.00	North, resurveying bet. secs. 11 and 12. Descend over rocky land, through dense sage and oak brush. Hollow, 50 ft. deep, course W. Ascend.
8.50	Spur, projects W. Descend.
29.50	Little Cottonwood Creek, 3 lks. wide, 4 ins. deep, in hollow, 100 ft. deep, course W. Ascend.
40.70	Fall 26 lks. W. of the $\frac{1}{4}$ sec.cor. bet. secs. 11 and 12, which is a sandstone, 24x10x8 ins. above ground, marked as described by the surveyor general, with no mound of stone; I raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
46.00	Wood road, bears E. and W.
50.50	Wire fence bears E. and W.
60.00	Spur, projects W. Descend.
62.50	Hollow, 50 ft. deep, course W. Ascend.
81.40	Fall 50 lks. W. of the cor. of secs. 1-2-11 and 12, which is a sandstone, 20x10x10 ins. above ground, marked and witnessed as described by the surveyor general. The course of this line is therefore N. $0^{\circ}21' E.$, and the

RESURVEY OF SUBDIVISIONS OF T.23 S., R.5 W.

CHAINS

- distance 81.40 chs.
 Land, mountainous.
 Soil, rocky, 3rd. rate.
 No timber: undergrowth, sage and oak.
 Mountainous land on 81.40 chs.
 August 4: At this cor. I set off $17^{\circ}21'N.$ on decl. arc, and at 12h.06m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is $38^{\circ}51'N.$
-
- East, resurveying bet. secs. 1 and 12.
 Ascend over rocky land, through dense sage and oak brush.
 35.50 Ridge, bears N.W. and S.E.
 Descend.
 39.47 Fall 87 lks. N. of the $\frac{1}{4}$ sec. cor. bet. secs. 1 and 12, which is a sandstone, $12 \times 12 \times 5$ ins. above ground, marked as described by the surveyor general, with no mound of stone; I raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
 Pits impracticable.
 The course of this line is therefore $S.88^{\circ}45'E.$, and the distance 39.48 chs.
 I offset over the $\frac{1}{4}$ sec. cor. and continue East
 .60 Hollow, 50 ft. deep, course N.W.
 Abrupt ascent.
 12.50 Enter heavy pine timber, bears N. and S.
 26.50 Leave heavy timber, bears N. and S.
 Enter scattering timber.
 36.47 Fall 45 lks. S. of the cor. of secs. 1-4-9 and 12, heretofore described on the E. bdy. of the Tp.
 The course of this line is therefore $N.89^{\circ}18'E.$ and the dis. 36.47 chs.
 Land, mountainous.
 Soil, rocky, 3rd. and 4th. rate.
 Timber, cedar and pinon. Undergrowth, sage and oak.
 Mountainous land on 75.95 chs.

August 4, 1906.

RESURVEY OF SUBDIVISIONS OF T.23 S., R.5 W.

CHAINS

For general description see Subdivisions of T.23 S., R.
5 W.

Harvey St. Hirst
U.S. Deputy Surveyor.

**Volume

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Harvey D. Heist, United States Deputy Surveyor, to assist in running, measuring, and fixing the lines and corners described in the foregoing field notes of the survey of the Subdivision of T. 20 S., Rs. 1 and 2 W.; Tps. 19 S., Rs. 1 and 2 W.; Tp. 18 S., R. 1; and Tp. 23 S., R. 5 W. of the Salt Lake Base and Meridian, Utah, in the respective capacities in which they acted:

Walter A. Stumm, Chairman.

Melvin D. Heist, Chairman.

Will L. White, Moundman.

Homer A. Shelley, Moundman.

Horace L. Allred, Axman.

Will L. White, Axman.

Will L. White, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Harvey D. Heist, United States Deputy Surveyor, in surveying all parts or portions of the the Subdivision of T. 20 S., Rs. 1 and 2 W.; Tps. 19 S., Rs. 1 and 2 W.; Tp. 18 S., R. 1 W.; and Tp. 23 S., R. 5 W. of the Salt Lake Base and

of the

meridian, State of Utah, which are represented by the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for

Utah

Walter A. Stumm, Chairman.

Melvin D. Heist, Chairman.

Homer A. Shelley, Moundman.

Horace L. Allred, Axman.

Will L. White, Axman.

Will L. White, Flagman.

scribed and sworn to before me this 4th day of August, 1906



Harvey D. Heist
U.S. Deputy Surveyor

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Harvey D. Heist, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from Edward H. Anderson, United States Surveyor General for Utah, bearing date of 3d day of June, 1905, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of ^{re}the Subdivision of T. 20 S., R. 1 E. and 2 W.; Tp. 19 S., Rs. 1 and 2 W.; Tp. 18 S., R. 1 W.; and Tp. 23 S. R. 5 W.

of the Salt Lake Base and meridian, in the State of Utah, which are represented in books Z. 3, Z. 4, Z. 6, Z. 7, Z. 8, forego^{re}ing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said ^{re}survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah, and in the specific manner described in the field notes, and the foregoing are the original field notes of such ^{re}Survey.

Harvey D. Heist
United States Deputy Surveyor

Subscribed by said Harvey D. Heist, and sworn to before me,

this 17th day of October, 1906

Thomas Kelly
U.S. Surveyor-General
for Utah.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 18, 1906

The foregoing field notes of the survey of ^{re}the Subdivisional lines of Township No. 23 South, Range No. 5 West of the Salt Lake Base and Meridian, Utah,

executed by Harvey D. Heist and Earl V. Woolley under ^{their} contract No. 291, dated June 3, 1905, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Kelly
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

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BOOK A-375

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FIELD NOTES

OF THE SURVEY OF THE

S-U-B-D-I-V-I-S-I-O-N-S

of

Township No. 23 South,

Range No. 5 West,

Of the Salt Lake Base and Meridian,

in the state of Utah

AS SURVEYED BY

Harvey D. Heist and Earl V. Woolley, United States Deputy Surveyors
their Contract No. 291, dated June 3, 1905

Survey commenced August 5, 1906

Survey completed August 6, 1906

High 8.77.02
10 76'

NAMES AND DUTIES OF ASSISTANTS.

Walter A. Stumm, Chainman
Melvin D. Heist, "
Homer A. Shelley, Moundman
Horace L. Allred, Axman
Will L. White, Flagman

For preliminary affidavits see book "Z²" Tp. 20 S., R. I. W.

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Township 23 South, Range 5 West

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Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

WE, and
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

, Chairman

, Chairman

Subscribed and sworn to before me this }
day of , 190 }



WE, and
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

, Moundman

, Moundman

Subscribed and sworn to before me this }
day of , 190 }



WE, and
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

, Axman

, Axman

Subscribed and sworn to before me this }
day of , 190 }



I, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

, Flagman

Subscribed and sworn to before me this }
day of , 190 }



SUBDIVISIONS OF T.23 S., R.5 W.

CHAINS	<p>Survey commenced, August 5, 1906, and executed with the instrument described in book "A", of this survey.</p> <p>I know the instrument to be in adjustment from recent observations made August 2 and 3, 1906, and recorded in book "Z28", of this survey.</p> <p>At 7h.06m., a.m., l.m.t., I set off $38^{\circ}49'N.$ on lat.arc, $17^{\circ}09'N.$ on decl.arc, and determine a meridian with the solar, at the cor. of secs. 13-14-23 and 24.</p> <p>Knowing from resurvey that the east and south bdys. of secs. 23 and 26, will be regular, I run</p> <p style="padding-left: 40px;">S.$0^{\circ}01'E.$, on a true line,</p> <p style="padding-left: 40px;">Bet. secs. 23 and 24.</p> <p>Ascend abruptly over rocky land, through dense oak and sage brush.</p>
6.50	Enter heavy cedar and pinon timber, bears N.W. and S.E.
10.00	Ridge, bears N.W. and S.E.
	Abrupt descent.
28.00	Hollow, 250 ft. deep, course W.
	Abrupt ascent.
40.00	Ridge, bears E. and W.
	Set a sandstone, $18 \times 10 \times 5$ ins., 12 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W. face, from which
	A cedar, 18 ins. diam., bears N. $35^{\circ}E.$, 25 lks.dist., marked $\frac{1}{4}$ S 24 B T.
	A cedar 6 ins. diam., bears S. $24^{\circ}W.$, 105 lks.dist., marked $\frac{1}{4}$ S 23 B T.
	Abrupt descent.
	Leave heavy timber, bears E. and W.
	Enter scattering timber.
62.00	Hollow, 300 ft. deep, course N.W.
	Abrupt ascent.
80.00	Set a quartzite stone, $28 \times 12 \times 4$ ins., 21 ins. in the ground, for cor.of secs. 23-24-25 and 26, marked with 2 notches on S. and 1 notch on E. edges, from which
	A cedar, 8 ins. diam., bears N. $54^{\circ}E.$, 51 lks.dist., marked T 23 S R 5 W S 24 B T.

SUBDIVISIONS OF T. 23 S., R. 5 W.

CHAINS	
	A cedar, 7 ins. diam., bears S. 51° E., 70 lks. dist., marked T 23 S R 5 W S 25 B T.
	A cedar, 5 ins. diam., bears S. 21° W., 66 lks. dist., marked T 23 S R 5 W S 26 B T.
	A cedar, 4 ins. diam., bears N. 44° W., 13 lks. dist., marked T 23 S R 5 W S 23 B T.
	Land, mountainous.
	Soil, rocky, 3rd. and 4th. rate.
	Timber, cedar and pinon; undergrowth sage and oak.
	Mountainous land on 80.00 chs.
	West, on a random line, bet. secs. 23 and 26.
38.30	Fall 24 lks. N. of the $\frac{1}{4}$ sec. cor. bet. secs. 23 and 26, heretofore described.
	Thence I run
	N. 89° 39' E., on a true line,
	Bet. secs. 23 and 26.
	Ascend abruptly over broken land, along steep north slope, through dense oak and sage brush.
21.00	Enter scattering cedar and pinon timber.
38.30	The cor. of secs. 23-24-25 and 26.
	Land, mountainous.
	Soil, rocky, 3rd. rate.
	Timber, cedar and pinon; undergrowth, sage and oak.
	Mountainous land on 38.30 chs.
	S. 0° 01' E., on a true line,
	Bet. secs. 25 and 26.
	Ascend through dense sage and scattering cedar and pinon timber.
3.00	Ridge, bears E. and W.
	Abrupt descent.
13.00	Hollow, 200 ft. deep, course W.
	Abrupt ascent.
18.00	Rocky spur, projects W.
	Abrupt descent.

SUBDIVISIONS OF T.23 S., R.5 W.

CHAINS	
27.00	Hollow, 300 ft. deep, course W. Abrupt ascent.
38.65	Rocky spur, projects W. Descend.
40.00	Set a sandstone, 20x12x6 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W. face, from which A cedar, 8 ins. diam., bears N. 28° W., 50 lks. dist., marked $\frac{1}{4}$ S 26 B T. A cedar, 32 ins. diam., bears N. 11° E., 50 lks. dist., marked $\frac{1}{4}$ S 25 B T.
44.50	Hollow, 150 ft. deep, course N.W. Abrupt ascent.
56.00	Ridge, bears N.W. and S.E. Abrupt descent.
64.00	Leave timber.
79.00	Enter scattering cedar and pinon timber.
80.00	Set a sandstone, 15x10x7 ins., 10 ins. in the ground, for cor. of secs. 25-26-35 and 36, marked with 1' notch on S. and E. edges, from which A cedar, 4 ins. diam., bears N. 31° E., 38 lks. dist., marked T 23 S R 5-W S 25 B T. A cedar, 4 ins. diam., bears S. 72° W., 18 lks. dist., marked T 23 S R 5 W S 35 B T. No other trees within limits, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, rocky, 3rd. and 4th. rate. Timber, cedar and pinon. Mountainous land on 80.00 chs.
40.00	West, on a random line, bet. secs. 26 and 35. Set temp. $\frac{1}{4}$ sec.cor.
79.62	Intersect N. and S. line, 28 lks. N. of the cor. of secs. 26-27-34 and 35, heretofore described.

SUBDIVISIONS OF T. 23 S., R. 5 W.

CHAINS	
	Thence I run N. 89° 48' E., on a true line, bet. secs. 26 and 35.
	Ascend abruptly over rocky land, through dense oak and sage brush.
27.00	Rocky spur, projects N.W. Abrupt descent.
35.00	Hollow, 300 ft. deep, course N.W. Abrupt ascent.
39.81	Set a quartzite stone, 18x12x4 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
47.50	Rocky spur, projects N.W. Abrupt descent.
62.00	Bend in hollow, 300 ft. deep, course from N.E. to NW. Ascend along south side of hollow.
75.00	Descend.
78.75	Hollow, 300 ft. deep, course N.W. Abrupt ascent.
79.62	The cor. of secs. 25-26-35 and 36. Land, mountainous. Soil, rocky, 3rd. and 4th. rate. No timber: undergrowth, oak and sage. Mountainous land on 79.62 chs. August 5: At this cor. I set off 17° 05' N. on decl. arc, and at 12h. 06m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 38° 48' N.
	S. 0° 01' E., on a random line, bet. secs. 35 and 36.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
79.48	Intersect N.bdy. of T. 24 S., R. 4 $\frac{1}{2}$ W., 5.25 chs. W. of the $\frac{1}{4}$ sec.corner for section 52, heretofore described. Set a sandstone, 24x14x6 ins., 18 ins. in the ground, for closing cor. to secs. 35 and 36, marked CC on N., with 1 groove on E. and 5 grooves on W. faces, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

SUBDIVISIONS OF T. 23 S., R. 5 W.

CHAINS	
	Pits impracticable.
	Indestructible marks on the $\frac{1}{4}$ sec. corner for section 50, pertaining to T. 23. S.
	Thence I run
	N. 0° 01' W., on a true line,
	Bet. secs. 35 and 36.
	Ascend abruptly over rocky land, through dense oak and sage brush.
24.00	Rocky spur, projects S.W.
	Descend.
33.00	Hollow, 100 ft. deep, course S.W.
	Ascend.
37.00	Rocky spur, projects S.W.
	Descend.
39.48	Set a sandstone, 18x12x6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Pits impracticable.
42.00	Hollow, 100 ft. deep, course S.W.
	Abrupt ascent.
59.00	Rocky ridge, bears N.E. and S.W.
	Enter scattering cedar and pinon timber.
	Descend.
62.00	Head of hollow, course N.W.
	Ascend.
71.00	Ridge, bears N.W. and S.E.
	Abrupt descent.
79.00	Hollow, 300 ft. deep, course N.W.
	Leave timber.
	Ascend abruptly.
79.48	The cor. of secs. 25+26-35 and 36.
	Land, mountainous.
	Soil, rocky, 3rd. and 4th. rate.
	Timber, cedar and pinon; undergrowth, sage and oak.
	Mountainous land on 79.48 chs.

SUBDIVISIONS OF T.23 S., R.5 W.

CHAINS	
	From the cor. of secs. 26-27-34 and 35, heretofore described
	I run
	S.0°01' E., on a random line, bet. secn. 34 and 35.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
79.24	Intersect N.bdy. of T.24 S., R.4 $\frac{1}{2}$ W., 4.76 chs.W. of the $\frac{1}{4}$ sec. corner for section 61, heretofore described. Set a sandstone, 18x10x7 ins., 12 ins. in the ground, for closing cor. of secs. 34 and 35, marked CC on N., with 2 grooves on E. and 4 grooves on W. faces, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable. I destroy all marks on the $\frac{1}{4}$ sec.cor. for section 61, pertaining to T.23 S. Thence I run
	N.0°01' W., on a true line,
	Bet. secs. 34 and 35.
	Ascend over rocky land, through dense sage and oak brush.
4.00	Enter scattering cedar and pinon timber.
4.10	Rocky spur, projects N.W. Abrupt descent.
7.50	Leave timber.
39.24	Set a sandstone, 24x9x5 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
40.00	Enter bottom of Corn Creek Canon, 1000 ft. deep, course N.W.
42.25	Road from Kanosh to Sevier Valley, bears N.W. and S.E. Enter heavy cottonwood timber, bears N.W. and S.E.
47.00	Corn Creek, 25 lks. wide, 12 ins. deep, course N.W.
50.00	Leave canon and timber, bears N.W. and S.E. Abrupt ascent.
73.00	Rocky spur, projects W. Abrupt descent.
79.24	The cor. of secs. 26-27-34 and 35. Land, mountainous. Soil, rocky, 3rd. rate.

SUBDIVISIONS OF T. 23 S., R. 5 W.

CHAINS

Timber, cottonwoods in bottom of canon.
undergrowth, oak and sage.

Mountainous land on 79.24 chs.

August 5, 1906.

August 6: At 7h.06m., a.m., l.m.t., I set off $38^{\circ}48'N.$ on lat.arc, $16^{\circ}53'N.$ on decl.arc, and determine a meridian, with the solar, at the cor. of secs. 25-26-35 and 36,

Thence I run

East, on a random line, bet. secs. 25 and 36.

40.00 Set temp. $\frac{1}{4}$ sec.cor.

81.34 Intersect E.bdy.of Tp., 47 lks.S. of the point for cor. of secs. 25-30-31 and 36, witnessed 44 lks.N. of this point, heretofore described.

Thence I run $S.89^{\circ}40'W.$, on a true line,

Bet. secs. 25 and 36.

Descend abruptly over sandstone boulders.

6.00 Enter bottom of north fork of Corn Creek Canon, 1200 ft. deep, course S.W.

Enter heavy cottonwood timber.

8.00 North fork of Corn Creek, 15 lks.wide, 6 ins deep, course S.W.

9.50 Canon road, bears NE and SW.

Leave canon and timber, bears N.E. and S.W.

Abrupt ascent.

14.50 Rocky spur, projects S.E.

Descend.

19.00 Hollow, 100 ft. deep, course S.E.

Enter scattering cedar and pinon timber.

Abrupt ascent.

41.34 Set a sandstone, $20 \times 12 \times 5$ ins., 15 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N. face, from which

A cedar, 4 ins diam., bears $S.25^{\circ}W.$, 65 lks.dist., marked $\frac{1}{4}$ S 36 B T.

No other trees within limits, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N.E. of cor.

Pits impracticable.

SUBDIVISIONS OF T.23 S., R.5 W.

CHAINS	
50.00	Ridge, bears N.E. and S.W. Abrupt descent. Leave timber.
81.34	The cor. of secs. 25-26-35 and 36. Land, mountainous. Soil, rocky, 3rd. and 4th. rate. Timber, cedar, pinon and cottonwoods. undergrowth, oak and sage. Mountainous land on 81.34 chs.
	From the cor. of secs. 23-24-25 and 26, I run N. 89° 40' E., on a random line bet. secs. 24 and 25.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
81.28	Intersect E. bdy. of Tp., 12 lks. N. of the cor. of secs. 22-24-25 and 27, heretofore described. Thence I run S. 89° 45' W., on a true line, Bet. secs. 24 and 25. Ascend over rocky land, through scattering cedar and pinon timber.
5.00	Ridge, bears N. and S. Abrupt descent.
13.00	Hollow, 100 ft. deep, course S. Ascend.
16.50	Rocky spur, projects S. Abrupt descent.
35.50	Hollow, 300 ft. deep, course N.W. Abrupt ascent.
41.28	Set a sandstone, 24x10x7 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
44.00	Rocky spur, projects N.W. Descend.
55.00	Hollow, 100 ft. deep, course N.W. Ascend.
70.50	Spur, projects N.

SUBDIVISIONS OF T. 23. S., E. 5 W.

CHAINS	
	Descend along steep north slope.
81.28	The cor. of secs. 23-24-25 and 26. Land, mountainous. Soil, rocky, 3rd. and 4th. rate. Timber, cedars: undergrowth, sage and oak. Mountainous land on 81.28 chs.
	August 6: At this cor. I set off $16^{\circ}49'N.$ on decl. arc, and at 12h. 06m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is $38^{\circ}48'N.$
	From the cor. of secs. 13-14-23 and 24, I run N. $89^{\circ}45'E.$, on a random line, bet. secs. 13 and 24.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
81.30	Intersect E. bdy. of Tp., 7 lks. S. of the cor. of secs. 13-15-22 and 24, heretofore described. Thence I run
	S. $89^{\circ}42'W.$, on a true line, Bet. secs. 13 and 24.
	Descend over broken and rocky land, along steep north slope, through dense oak and sage brush.
30.00	Hollow, 150 ft. deep, course N. Abrupt ascent.
37.00	Rocky spur, projects N. Descend.
40.50	Hollow, 100 ft. deep, course N. Ascend.
41.30	Set a sandstone, $28 \times 10 \times 7$ ins., 21 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
60.50	Rocky spur, projects N. Descend along steep north slope.
71.00	Hollow, 100 ft. deep, course N. Ascend.
78.00	Rocky spur, projects N. Abrupt descent.
81.30	The cor. of secs. 13, 14, 23, and 24. Land mountainous. Soil, rocky, 3d. and 4th. rate. No timber: undergrowth sage and oak brush. Mountainous land covered with dense undergrowth 81.30 chs.

SUBDIVISIONS OF T. 23 S., R. 5 W.

CHAINS

Knowing from resurvey that the line bet. secs. 12 and 13 will not close within limits on the E. bdy. of the Tp., I begin at the reestablished $\frac{1}{4}$ sec. cor. bet. secs. 12 and 13 heretofore described and run
 N. $89^{\circ}42' E.$, on a true line,
 Bet. secs. 12 and 13.
 Ascend abruptly over rocky alnd through dense oak brush.
 5.00 Rocky ridge, bears N.W. and S.E.
 Abrupt descent.
 36.46 Intersect E. bdy. of Tp., 75 lks. S. of the cor. of secs. 9-12-13 and 16, heretofore described.
 Set in sandstone, 18x10x8 ins., 12 ins. in the ground, for closing cor. of secs. 12 and 13, marked CC on W., with 4 grooves on S. and 2 grooves on N. faces, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 Pits impracticable.
 I destroy all marks on the cor. of secs. 9-12-13 and 16, pertaining to R. 5 W.
 Land, mountainous.
 Soil, rocky, 3rd. rate.
 No timber; undergrowth oak.
 Mountainous land on 36.46 chs.

August 6, 1906,

GENERAL DESCRIPTION

The portion of this township surveyed lies on the western slope of the Pavant range of mountains and is badly broken by many hollows and canons.

A scattering growth of cedar and pinon timber is found over the entire township while along Corn Creek a growth of cottonwoods is found.

All of this survey is covered with a dense growth of undergrowth.

There are no settlers on this survey.

The only water found on this survey is in Corn, Cottonwood and Little Cottonwood creeks.

GENERAL DESCRIPTION OF T. 23 S., R. 5 W.

There are no indications of mineral found on this survey.

BOUNDARIES OF T. 23 S. R. 5 W.

LATITUDES, DEPARTURES AND CLOSING ERRORS.

Line designated	True Course	Distance	Latitudes		Departures	
			N. Chs.	S. Chs.	E. Chs.	W. Chs.
Bdy.		Went	242.70	.	.	242.70
ubs:-						
et. secs. 33 and 34	N.4°19'E.	38.96	38.84	.	2.94	.
" " 27 " 34	N.1°00'E.	40.04	40.03	.	.70	.
" " 26 " 27	S.88°13'E.	39.72	.	1.24	39.70	.
" " 22 " 23	N.87°45'E.	38.75	1.52	.	38.72	.
" " 14 " 23	N.0°26'E.	40.05	40.05	.	.30	.
" " 13 " 14	N.1°35'E.	40.12	40.10	.	1.10	.
" " 11 " 12	N.2°09'E.	40.06	40.03	.	1.50	.
" " 1 " 12	N.0°51'E.	40.09	40.08	.	.59	.
" " 14 " 23	N.88°50'E.	40.06	.74	.	40.05	.
" " 13 " 14	S.88°49'E.	36.14	.	.74	36.13	.
" " 11 " 12	N.2°02'E.	39.59	39.56	.	1.40	.
" " 1 " 12	N.4°56'E.	40.17	40.02	.	3.50	.
Error in lat. and dep.						
convergency	South	400.15	400.15	.	.14	.
			402.92	403.00	243.16	242.70
					402.92	242.70

Error in lat. and dep.

Jerry L. Feist

U.S. Deputy Surveyor.

NOTE:

There being no notary public or other officer authorized to administer oaths, within a reasonable distance, at the beginning or ending of this survey; in order to save time and expense, I administer the preliminary and final affidavits, for retracement, resurvey and survey of Contract No. 291, myself.

Jerry L. Feist

U.S. Deputy Surveyor.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Harvey D. Heist, United States Deputy Surveyor, to assist in running, measuring, and laying the lines and corners described in the foregoing field notes of the survey of the subdivision of Tp. 20 S., Rs. 1 and 2 W.; Tps. 19 S., Rs. 1 and 2 W.; Tp. 18 S.R.I. Tps. 23 S., Rs. 4, 4½, and 5 W.; and Tps. 24 S., Range 4½ W. of the Lake Base and Meridian, Utah, indicating the respective capacities in which they acted:

Walter A. Stumm, Chainman.
 Melvin D. Heist, Chainman.
 Homer A. Shelley, Moundman.
 Horace L. Allred, Axman.
 Will L. White, Axman.
 Will L. White, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Harvey D. Heist, United States Deputy Surveyor, in surveying all parts or portions of the subdivisional lines of Tp. 20 S., Rs. 1 and 2 W.; 19 S., Rs. 1 and 2 W.; Tp. 18 S., R. 1 W.; Tps. 23 S., Rs. 4, 4½, and 5 W.; and Tp. 24 S., R. 4½ W.

of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey was in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Walter A. Stumm, Chainman.
 Melvin D. Heist, Chainman.
 Homer A. Shelley, Moundman.
 Horace L. Allred, Axman.
 Will L. White, Axman.
 Will L. White, Flagman.

Scribed and sworn to before me this 6th day of August, 1906. }

Harvey D. Heist
U.S. Deputy Surveyor.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Harvey D. Heist, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from Edward H. Anderson, United States Surveyor General for U t a h, bearing date of 3d day of June, 1906, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for U t a h, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the subdivision of Tps. 20 S., Rs. 1 and 2 W.; Tps. 19 S., Rs. 1 and 2 W.; Tp. 18 S., R. 1 W.; Tps. 23 S., Rs. 4, 4½, and 5 W.; and Tp. 24 S., R. 4½ W.

of the Salt Lake
Base and Z 2 Z 7 meridian in the State Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for U t a h, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Subscribed by said Harvey D. Heist, and sworn to before me,

this 17th day of October, 1906.

© SEAL ©
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Harvey D. Heist
United States Deputy Surveyor

Thomas Kelly
U.S. Surveyor-General

for Utah.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 18, 1906

The foregoing field notes of the survey of the subdivisional lines of Township No. 23 South, Range No. 5 West of the Salt Lake Base and Meridian, Utah,

executed by Harvey D. Heist and Earl V. Woolley
under ~~their~~ contract No. 291, dated June 3, 1905, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Kelly
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

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4-679.

BOOK A-375

a.

FIELD NOTES

OF THE SURVEY OF THE

FRACTIONAL NORTH BOUNDARY.

O F

TOWNSHIP NO. 22 SOUTH,

RANGE NO. 2 EAST

Of the SALT LAKE BASE AND Meridian,

U. T. A. H.,

AS SURVEYED BY

Schoeber,

Edward Nissen, Compassman for Philipp D., United States Deputy Surveyor, Dec'd

under his Contract No. 239, dated May 11, 1906

Survey commenced June 8, 1907.

Survey completed June 11, 1907.

Lug 4.09.07

NAMES AND DUTIES OF ASSISTANTS.

Leon Wilson,

Clerk.

Robert Goffman

Clerk.

Willie P. Thompson

Secretary.

Frank Wallace,

Secretary.

Orval Johnson,

Janitor.

Willie P. Thompson

Janitor.

BOOK A-375

INDEX DIAGRAM.

Township _____, *Range* _____

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31	32	33	34	35	36

Meanders Page _____

PRELIMINARY OATHS OF ASSISTANTS.

We, Leon Wilson and Robert Gorlinski
 do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the fractional North Boundary of T. 22 S., R. 2 E., of the Salt Lake Base and Meridian, Utah.

Leon Wilson, Chainman
Robert Gorlinski, Chainman

Subscribed and sworn to before me this 8th day of June, 1907 }


Edward Nissen, Compassman for Philipp D. Schoeber U.S. Dep. Surveyor, Deceased

We, Neils P. Rasmussen and France Mattisson
 do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of the fractional North Boundary of T. 22 S., R. 2 E., of the Salt Lake Base and Meridian, Utah,

Orval C. Rasmussen, Moundman
France Mattisson, Moundman

Subscribed and sworn to before me this 8th day of June, 1907 }


Edward Nissen, Compassman for Philipp D. Schoeber U.S. Dep. Surveyor, Deceased

We, Orval Clawson and Neils P. Rasmussen
 do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of the fractional North Boundary of T. 22 S., R. 2 E., of the Salt Lake Base and Meridian, Utah.

Orval Clawson, Axman
Neils P. Rasmussen, Axman

Subscribed and sworn to before me this 8th day of June, 1907 }


Edward Nissen, Compassman for Philipp D. Schoeber U.S. Dep. Surveyor, Deceased

I, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

Flagman

Subscribed and sworn to before me this 8th day of June, 1907 }


NORTH BOUNDARY OF T. 22 S., R. 2 E.

Survey commenced June 8, 1907, and executed with a T. & J. E. Gurley light mountain transit No. ---- with solar attachment; the horizontal limb having two double verniers placed opposite to each other reading to 1' of arc, which is also the least count of the verniers of the latitude and declination arcs. The instrument was examined, tested on the true meridian at Salt Lake City, Utah, found correct and was approved by the surveyor general for Utah, June 5, 1907.

I examine the adjustments of the transit and correct the level and collimation errors; then, to test the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

At the cor.of Tps.21 and 22 S., Rgs.2 and 3 E., which is a sandstone 12x4x9 ins. above ground, firmly set and marked and witnessed as described by the surveyor general, latitude $38^{\circ} 56' 29''$ N., longitude $111^{\circ} 40' 28.9''$ W. at 4 h.32 m.p.m.l.m.t.I set off $22^{\circ} 50' N.$ on the decl.arc; and $38^{\circ} 56' N.$ on the lat.arc; and determine with the solar a meridian and mark a point thereof on a stone firmly set in the ground 5 chs.N.of my station.

June 8, 1907.

June 9, 1907: At 2 h.24 m.a.m.l.m.t.I observe Polaris at eastern elongation in accordance with instructions in the Manual, and mark the line thus determined by a tack driven in a wooden peg set in the ground 5 chs. N.of my station.

At 7 h. 30 m.a.m.l.m.t.I lay off the azimuth of Polaris $1^{\circ} 32'$ to the west and mark the true meridian thus

NORTH BOUNDARY T. 22 S., R. 2 E.

determined by cutting a small groove in the stone set last evening on which the meridian falls 0.4 ins. west of the mark determined by the solar.

At 7 h. 59 m.a.m.l.m.t. I set off $22^{\circ} 53' N.$ on the decl. arc, $38^{\circ} 56' N.$ on the lat. arc; and mark the meridian thus determined by the solar by a cross on the stone already set 5 chs. N. of my station; this mark falls 0.5 ins. west of the meridian established by the Polaris observation.

The solar apparatus by p.m. and a.m. observations defines positions for meridians about $0^{\circ} 21' E.$ and $0^{\circ} 26' W.$ of the meridian established by the Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the meridian at 7 h. 59 m.a.m. is N. $16^{\circ} 40' W.$; the angle thus determined gives the mag. decl. $16^{\circ} 40' E.$

From the cor. already described I run West on a blank line along W.bdy. of T. 22 S., R. 2 E. but find no trace of any old corners.

At 6 miles 7.25 chs. I intersect the W.bdy. of the township at a point 1.42 chs. S. of cor. of Tps. 21 and 22 S. Rs. 1 and 2 E., which is a sandstone $16 \times 16 \times 12$ ins. above ground, properly set and marked and witnessed as described by the surveyor general. This falling answers to a correction of $0^{\circ} 10'$, or 24 lks. N. per mile counting from the NE.cor. of the Tp.

June 9, 1907.

June 10, 1907: At 7 h. 59 m.a.m.l.m.t. at the cor. of Tps. 21 and 22 S., Rs. 1 and 2 E., I set off $22^{\circ} 53' N.$ on the decl. arc, $38^{\circ} 56' N.$ on the lat. arc, and determine a meridian with the solar.

NORTH BOUNDARY T 22 S., R. 2 E.

Chains. Thence I run

S. $89^{\circ} 50' E.$ on a true line on N.bdy.of Tp., and at 1 mile 77.68 chs., which is the old distance, I set a sandstone 17x8x6 ins., 12 ins.in the ground, for re-established cor.of secn.4,5,32, and 33, marked with 4 notches on E. and 2 notches on W.edge; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor.Pits impracticable.

June 10: At this cor.I set off $22^{\circ} 58' N.$ on decl.arc; and at 11 h.59 m.a.m.l.m.t.observe the sun on the meridian; the resulting lat.is $38^{\circ} 56'$

From this cor.I run

S. $89^{\circ} 50' E.$ on N.bdy.of sec.4, T. 22 S., R. 2 E.

Over mountainous land; ascending.

- 2.00 Steep ascent through pine and cedar timber.
- 13.25 Spur 50 ft.high, bears S. 30° W. and N. 30° E.
- 15.25 Gully, 50 ft.deep, drains S. 45° W.
- 23.25 Ridge 100 ft.high bears S. 35° W. and N. 35° E.
- 26.75 Gully, 50 ft.deep, drains S. 30° W.
- 32.80 Spur, 700 ft.high, bears S. 28° W. and N. 28° E.
Leave timber; water ledges and boulders.
- 49.57 Set a sandstone 18x12x6 ins., 12 ins.in the ground for 1 sec.cor., marked 1 on N.face; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor.Pits impracticable.
- 51.25 Top of precipice, 800 ft.deep.
- 77.00 Foot of same, Cottonwood Hollow, drains S. 25° W.
Ascend abruptly through scattering timber.
- 89.57 Set a sandstone 18x10x4 ins.. 12 ins.in the ground for cor.of secs.3,4,33, and 34, marked with 3 notches on E. and W.edges; and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high W.of cor.Pits impracticable.
- From this cor.
- A cedar, 14 ins.dia.bears S. 57° 45' W. 15 lbs.dwt.
marked T 22 S R 2 E S 4 R T

NORTH BOUNDARY T. 22 S., R. 2 E.

Chains. A pine 7 ins.dia.bears S.36° 45'E. 32 lks.dist.

marked T 22 S R 2 E S 3 B T

No other bearing trees within limits.

Land, mountainous.

Soil, stony loam; 2d rate, 40.00 chs.

Boulders and bluffs 4 th rate 49.57 chs.

Timber, pine and cedars, 30.80 chs.

Mountainous land 89.57 chs.

June 10, 1907.

June 11: At 8 h. 59 m.a.m.l.m.t. I set off 23°. 03' N.on the decl.arc; 38° 56' N.on the lat.arc; and determine a meridian with the solar at the cor.of secs.3,4,33 and 34. Thence I run

S.89° 50'E.on true line on N.bdy.sec.3,
Ascending through dense undergrowth.

34.00 Enter scattering pine and cedar; leave undergrowth.

40.00 Set a sandstone 16x10x5 ins., 11 ins.in the ground for
sec.cor., marked $\frac{1}{2}$ on N.face; from which

A pine 10 ins.dia.bears S.89° 30'E. 1.30 chs.dist.
marked $\frac{1}{2}$ S 3 B T

No other bearing trees within limits; raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high N.of cor. Pits impractical.

42.10 Ridge between Cottonwood Hollow and Alumbed Hollow, 500 ft.high bears S.36° W. and N.36° E.

Descent abruptly.

60.50 Gentle descent; leave timber.

63.50 Hollow, drains S.42° E.

Ascend.

67.20 Ridge, 20 ft.high, bears N.34° W. and S.34° E.

-5-

NORTH BOUNDARY T. 22 S., R. 2 E.

Chains. 71.00	Descend in dense oak brush.
80.00	Set a sandstone 18x9x6 ins., 12 ins.in the ground for cor.of secs.2,3,10, and 11, marked with 4 notches on W. and 2 notches on E.edges; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor. This cor.stands in dense oak brush on W.slie of Alumbed Hollow, 40 ft.above same.
	Land, mountainous..
	Soil, loam: 1st rate, 50.00 chs.
	Stony: 2d rate, 30.00 chs.
	Timber, some pines and cedars, 26.50 chs.
	Undergrowth oak brush 43.00 chs.
	Mountainous land 80.00 chs.
	June 11: At this cor.I set off $23^{\circ} 03' N.$ on the decl. arc; and at 11 h.59 m.a.m.l.m.t.observe the sun on the meridian; the resulting lat.is $38^{\circ} 56' N.$

5.00	S. $89^{\circ} 50' E.$ on true line on N.bdy.sec.2, Descend through oakbrush.
20.00	Alumbed Hollow, drains S. $35^{\circ} W.$
40.00	Descent abruptly.
70.00	Gentle ascent.
75.00	Set a sandstone 20x9x5 ins., 15 ins.in the ground for $\frac{1}{2}$ sec.cor., marked $\frac{1}{2}$ on N.face; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high N.of cor. Pits impracticable.
80.00	More rapid ascent.
	Ridge between Alumbed Hollow and Water Hollow, 500 ft. above Alumbed Hollow and 1000 ft.above Water Hollow, bears S. $55^{\circ} W.$ and N. $55^{\circ} E.$
	Set a sandstone 17x6x7 ins., 11 ins.in the ground, for cor.of secs.1,2,35, and 36, marked with 1 notch on E. and 5 notches on W.edges; and raise a mound of stone

NORTH BOUNDARY T. 22 S., R. 2 E.

	Chains. 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Pits impracticable. Land, mountainous. Soil, loam; 1st rate. Dense oakbrush 80.00 chains. No timber. Mountainous land, covered with dense undergrowth 80.00 chs.
	S. 89° 50' E. on a true line on N.bdy. of sec. 1, Ascending through dense oak brush.
15.00	Top of spur ridge, 50 ft. high bears N. 20° W. and S. 20° E. Descend abruptly.
29.00	Leave dense undergrowth, Enter flat.
35.00	Descend.
36.00	Small gully, drains S. 15° E.
40.00	Set a limestone 15x7x3 ins., 10 ins. in the ground for $\frac{1}{2}$ sec.cor., marked $\frac{1}{2}$ on N.face; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor. Pits impractical- able.
	Enter dense oak brush.
45.00	Spring branch 5 lks. wide, 6 ins. deep runs S. 35° E. in gully 15 ft. deep.
	Ascend.
55.00	Top of ridge, 15 ft. high, bears N. 10° W. and S. 10° E. Descend.
56.50	Gully, 10 ft. deep, drains S. 10° E. Ascend.
65.00	Top of ridge, 20 ft. high, bears S. 20° W. and N. 20° E. Descend gently.
73.00	Descend abruptly.
74.00	Gully 10 ft. deep, drains S. 35° W.
80.00	The cor. of Tps. 21 and 22 S., Rs. 2 and 3 E.

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NORTH BOUNDARY T. 22 S., R. 2 E.

Chains. Land, mountainous.

Soil, loam; 1st rate.

Undergrowth oak brush.

No timber.

Mountainous land 80.00 acres.

June 11, 1907.

For general description see notes of subdivision
of this township.

Edward Mitten, Compassman
for Phillip D. Schoeber,
U.S. Dep. Surveyor, Deceased.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Edward Nissen, Compassman for
Philip D. Schoeber, Deceased, United States Deputy Surveyor, to assist in running, measuring, and
 fixing the lines and corners described in the foregoing field notes of the survey of the fractional
north Boundary of T. 22 S., R. 2 E., Salt Lake Base and Meridian, Utah,
 giving the respective capacities in which they acted:

Leon Wilson, Chairman.

Robert Gorlinski, Chairman.

Neils P. Rasmussen, Moundman.

Frazer Matteson, Moundman.

Orval Clawson, Axman.

Neils P. Rasmussen, Axman.

, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Edward Nissen, Compassman for
Deceased
Philip D. Schoeber, United States Deputy Surveyor, in surveying all
 the parts or portions of the the fractional north boundary of township No. 22
th., range No. 2 East

of the Salt Lake
meridian, State of Utah, which are represented
 in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
 has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
 corner monuments established, according to the instructions furnished by the United States Surveyor
 General for U. t. a. h.

Leon Wilson, Chairman.

Robert Gorlinski, Chairman.

Frazer Matteson, Moundman.

Neils P. Rasmussen, Moundman.

Orval Clawson, Axman.

Neils P. Rasmussen, Axman.

, Flagman.

scribed and sworn to before me this 28th
 day of June, 1907 } }

SEAL

Edward Nissen,
 Compassman for Philip D. Schoeber
 U.S. Dep. Surveyor, Deceased.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

Schoeber,

I, Edward Nissen, Companion for Philipp D. Schoeber, United States Deputy Surveyor,

solemnly swear that, in pursuance of a contract received from the United States Surveyor General for _____, bearing date of _____, U. S. A. H.

Jacob B. Blair

11th day of May, 1900, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for U. S. A. H., the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the fractional North Boundary of Township No. 22 South, Range No. 2 East.

of the Salt Lake Base

and meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for U. S. A. H., and in the specific manner described in the field notes, and the foregoing are the original field notes of such survey.

(Signature) Edward Nissen Companion
Philipp D. Schoeber United States Deputy Surveyor
Deceased.

Subscribed by said Edward Nissen and sworn to before me,

this 23d day of November, 1907.

(Signature) James M. Hall
U.S. Surveyor-General

for Utah.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, February 26, 1908

The foregoing field notes of the survey of the fractional North Boundary of Township No. 22 South, Range No. 2 East of the Salt Lake Base and Meridian, Utah,

executed by Edward Nissen, Companion for Philipp D. Schoeber, Deceased under his contract No. 239, dated May 11, 1900, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

(Signature) James M. Hall
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

(Signature) United States Surveyor General

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BOOK A-375

B.

FIELD NOTES

RE
OF THE SURVEY OF THE

EAST BOUNDARY

O F

TOWNSHIP NO. 22 SOUTH

RANGE NO. 2 EAST

Of the SALT LAKE BASE AND Meridian,

U T A H,

AS SURVEYED BY

Schoeber,

ward Nissen, Compassman for Philipp D., United States Deputy Surveyor, Dec'd.

der his Contract No. 239, dated May 11, 1900,

urvey commenced June 12, 1907,

urvey completed June 13, 1907.

Hugh S. 68.93

NAMES AND DUTIES OF ASSISTANTS.

Leon Wilson,.....Chairman.

Robert Gorlinski,.....Chairman.

France Mattsson.....Moundman.

N.W.P. Rasmussen,.....Moundman.

Orval Clawson,.....Axman.

N.P. Rasmussen,.....Axman.

BOOK A-375

INDEX DIAGRAM.

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30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page _____

PRELIMINARY OATHS OF ASSISTANTS.

WE, Leon Wilson and Robert Gorlinski
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the
chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that
we will report the true distances to all notable objects, and the true lengths of all lines that we assist in
measuring, to the best of our skill and ability, and in accordance with instructions given us, in the Survey of
the East Boundary of Township No. 22 South, Range No. 2 East of the Salt Lake Base and Meridian, Utah.

Leon Wilson

, Chainman

Robert Gorlinski

, Chainman

Subscribed and sworn to before me this 12thday of June, 1907 } Edward Nissen

Compassman for

Philipp D. Schoeber, U.S. Dep. Surveyor

Deceased.

WE, France Mattsson and N. P. Rasmussen
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment
of corners, according to the instructions given us, to the best of our skill and ability, in the Survey
of the East Boundary of T. 22 S., R. 2 E. of the Salt Lake Base and
Meridian, Utah.

France Mattsson

, Moundman

N. P. Rasmussen

, Moundman

Subscribed and sworn to before me this 12thday of June, 1907 } Edward Nissen

Compassman for Philipp D. Schoeber

U. S. Dep. Surveyor, Deceased.

WE, Orval Clawson and N. P. Rasmussen
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corner
and other duties, according to instructions given us, to the best of our skill and ability, in the Survey
of the East Boundary of Township 22 S., R. 2 E. of the Salt Lake Base and
Meridian, Utah.

Orval Clawson

Axman

N. P. Rasmussen

Axman

Subscribed and sworn to before me this 12thday of June, 1907 } Edward Nissen

Compassman for Philipp D. Schoeber

U. S. Dep. Surveyor, Deceased.

I, , do solemnly swear that I will well and truly
perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the
Survey of

Flagman

Subscribed and sworn to before me this day of , 1907 } 

RESURVEY OF EAST BOUNDARY T. 22 S., R. 2 E.

Chains. From previous retracements I find that most of the corners upon which I am to close my new survey are missing I therefore deem it necessary to resurvey the old lines as follows:

Survey commenced June 12, 1907 and executed with the instrument described in book "A" of this survey. For complete test also see book "A".

At 8 h. 59 m.a.m.l.m.t. I set off $38^{\circ} 51'$ on lat.arc; $23^{\circ} 07'$ N.on decl.arc; and determine a meridian with the solar at the cor.of Tps.22 and 23 S., Rs.2 and 3 E., which is a sandstone 4 x 16 x 22 ins.above ground, firmly set, and marked and witnessed as described by the surveyor general.

Thence I run

North on E.bdy.of sec.36,

Descending through dense oak brush.

12.00 Gulch 100 ft.deep; drains S. 85° W.

13.00 Leave brush; enter timber.

Ascend abruptly.

23.50 Ridge 200 ft.high bears N. 65° W. and S 65° E.

Leave timber; enter underbrush.

27.90 Gulch, drains N. 70° W.

32.00 Ridge, 300 ft.high, bears N. 70° W. and S. 70° E.

40.00 No trace of old $\frac{1}{4}$ sec.cor.,

Set a sandstone 15x9x6 ins., 10 ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; and raise a mound of stones 2 ft.base, $1\frac{1}{2}$ ft.high w.of cor.Pits impractical.

71.00 Leave underbrush; enter pine, cedars and mahogany.

Descend.

76.00 Precipitous descent into Catamount Gulch.

As the cor.of secs.25,30,31 and 36 falls in an inaccessible place, I

Set a sandstone 21x9x7 ins., 15 ins.in the ground, for

RESURVEY OF EAST BOUNDARY T. 22 S., R. 2 E.

Chains.	witness cor.to corner of secs.25,30,31, and 36, marked with 5 notches on N. and 1 notch on S.edge, and W.C. on NW.face, and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor.Pits impracticable.
	No bearing trees within limits.
80.00	Point for cor.of secs.25,30,31, and 36 falls in inaccessible place; corner not set.
	Land, mountainous.
	Soil, loam, 1st rate; stony, 2d rate.
	Timber, pine, cedar and mahogany 19.50 chs.
	Undergrowth, oak brush.
	Mountainous land 80.00 chs.

North on E.bdy.of sec.25,

Descend in pines and cedars.

1.00 Bottom of Catamount Gulch, course N.60° W.

1.50 Foot of steep inaccessible ascent which I cannot chain.
To determine the distance I set a flag on top of precipice on line; then I measure a base line west 16 chs. from witness cor.to cor.of secs.25,30,31, and 36 to a point from which the flag north of Catamount Gulch bears N.16° 30'E.; the distance then is $16 \times \tan. 73^\circ 30' = 16 \times 3.37594 = 54.02$, this added to 76 = 130.02, from which I subtract 80 and obtain

50.02 Top of precipice, steep ascent in cedars and pine.

51.00 Set a sandstone 16x7x5 ins., 11 ins.in the ground for witness cor.to $\frac{1}{4}$ sec.cor., marked W.C $\frac{1}{4}$ on W.face; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor. Pits impracticable. From this cor.

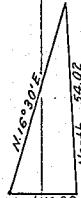
A pine 11 ins.diam.bears S.8° W. 18 lks.dist.

marked W.C $\frac{1}{4}$ S 25 B.T

A pine, 11 ins.diam.bears S.56° E. 23 lks.dist.

marked W.C $\frac{1}{4}$ S 30 B.T

56.50 Ridge, 1200 ft.high, bears N.50° W. and S.50° E.



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RESURVEY OF EAST BOUNDARY OF T. 22 S. R. 2 E.

Chains.	Leave timber; enter dense undergrowth.
80.00	No trace of old cor. Set a sandstone 20x9x9 ins., 15 ins.in the ground for cor.of secs.19, 24, 25, and 30, marked with 4 notches on N. and 2 notches on S.edges; and raise a mound of stones 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor.Pits impracticable. A pinon pine 4 ins.diam.bears N.55° 31'W. 93 lks. dist., marked T 22 S R 2 E S 24 B T No other bearing trees within limits. Land, mountainous. Soil, loam; 1st rate; stony, 2d rate. Timber pine and cedar 56.50 chs. Undergrowth oak brush. Mountainous land 80.00 chs.

June 12: At this cor.I set off 23° 08' N.on the decl. arc; and at 11 h.59 m.a.m.l.m.t.observe the sun on the meridian; the resulting lat.is 38° 53', which is the correct latitude.

6.00	North on E.bdy.of sec.24, Descending in dense undergrowth, oak brush. Deep gulch drains N.76° W.
40.00	No trace of old & sec.cor. Set a sandstone 13x8x4 ins., 9 ins.in the ground for sec.cor., marked $\frac{1}{2}$ on W.face; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor.Pits impracticable.
56.00	Top of ridge, 1000 ft.above Salina Canon, bears E. & W. Descend abruptly in dense oak brush.
80.00	No trace of old cor.,

RESURVEY OF EAST BOUNDARY T' 22 S., R. 2 E.

Chains. Set a sandstone 16x10x4 ins., 11 ins. in the ground for cor. of secs. 13, 18, 19, and 24, marked with 3 notches on N. and S. edges; from which

A pinon pine, 11 ins. diam. bears N. 62° 56' W. 41

lks. dist., marked T 22 S R 2 E S 12 B T

A pinon pine, 15 ins. diam. bears S. 26° 41' E. 30

lks. dist., marked T 22 S R 2 E S 19 B T

No other bearing trees within limits; raise a mound of stones 2 ft. base, 1½ ft. high W. of cor. Pits impracticable.

Land, mountainous.

Soil, loam; 1st rate; stony 2d rate.

No timber.

Undergrowth Oak brush.

Mountainous land covered with dense undergrowth 80.00 chs.

June 12, 1907.

June 13: At 8 h. 29 m.a.m.l.m.t. I set off 22° 11' N. on decl.arc; 38° 54' N. on lat.arc; and determine a meridian with the solar at the cor. of secs. 13, 18, 19, and 24. Thence I run

North on E.bdy.of sec.13,

Descending abruptly in dense oakbrush.

26.00 Salina Creek, 50 lks. wide, 2 ft. deep, drains N. 65° W.
Leave undergrowth.

26.60 R.G.W.R.R. track bears N. 63° 30' W. and S. 63° 30' E.

27.34 Road to Castle Valley bears E. & W.

Ascend abruptly over rocks and through pine and cedar.

33.54 Point for 4 sec.cor.inaccessible; therefore at this point, I

Marked a stationary sandstone ledge with a cross (X) at exact point for 4 sec.cor. and w C 4 on W.face; from which

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RESURVEY OF EAST BOUNDARY T. 22 S., R. 2 E.

- Chains. A cedar, 5 ins. diam. bears N.16° W. 53 lks.dist.
marked W C 4 S 13 B T
- A cedar, 6 ins. diam., bears S.36° W. 40 lks.dist.
marked W C 4 S 13 B T
- 39.54 Foot of bluff, 500 ft. high, bears E. and S.45° W.
- 40.00 Point for 1 sec.cor. falls in inaccessible plane; cor.
not set.
- 47.00 Top of bluff.
- 50.00 Ridge, 800 ft. above Salina Canon, bears E. and W.
Leave dense timber.
Descend abruptly through dense brush and scattering
timber.
- 58.00 No trace of old cor.
- Set a sandstone 18x18x8 ins., 12 ins. in the ground, for
cor. of secs. 7, 12, 13, and 18, marked with 2 notches
on N. and 4 notches on S. edge; and raise a mound of
stone 2' ft. base, $1\frac{1}{2}$ ft. high W. of cor. Pits impractical.
- No bearing trees within limits.
- Land, mountainous.
- Soil, loam; 1st rate; stony. 3d rate.
- Timber pine and cedar.
- Undergrowth, oak brush.
- Mountainous land 80.00 chs.
-
- North on E. bdy. of sec. 12,
Descend in dense oak brush..
- 5.35 Gulch, 50 ft. deep, drains S.56° W.
- Ascend abruptly in dense cedars and pine; leave under-
growth.
- 25.00 More gradual ascent.
- 28.75 Ridge, 400 ft. above Water Hollow, bears N.45° E. and S.
45° W.
- 33.00 Leave timber; enter dense brush;

RE-SURVEY OF EAST BOUNDARY T. 22 S., R. 2 E.

Chains. Descend.

43.00 No trace of old 4 sec.cor.

Set a sandstone 20x8x6 ins., 15 ins.in the ground, for
4 sec.cor., marked 4 on W.face; and raise a mound of
stones 2 ft.base, 1 $\frac{1}{2}$ ft.high N.of cor. Pits imprac-
ticable.

A pine 8 ins.diam.bears S.88° 44'E. 1.11 chs.

dist., marked 4 S 7 B T

A pine, 8 ins.diam.bears S.83° 39'E. 1.13 chs.dist.
marked 4 S 7 B T

No other bearing trees within limits.

Descend rapidly in dense brush.

65.00 Water Hollow Creek, 3 lks.wide, 3 ins.deep, drains S.
70° E. Leave undergrowth.

Ascend gently through sagebrush.

75.00 Rapid ascent in dense cedars and pine.

86.00 Distinct traces of old corner.

Set a sandstone 18x12x6 ins., 12 ins.in the ground for
cor.of sect.1,6,7, and 12, marked with 1 notch on N.
and 5 notches on S.edge; and raise a mound of stones
2 ft.base, 1 $\frac{1}{2}$ ft.high N.of cor.Pits impracticable.

A cedar 9 ins.diam.bears N.53° 54'W. 46 lks.dist.
marked T 22 S R 2 E S 1 B T

A cedar, 10 ins.diam.bear S.46° 24'W. 21 lks.dist.
marked T 22 S R 2 E S 12 B T

No other bearing trees within limits.

Leroy Alfred's cabin, bears S.35° 16'W. 32.89 chs.dist.
land, mountainous.

Soil, loam; 1st.rain:

Timber pine and cedar 28.65 chs.

Undergrowth oak and sagebrush.

Mountainous land 20.00 chs.

June 13: At thin cor.I set off 23° 11' N. on isol.arc;
and at 12 M.M.L.M.T.observe the sun on the meridian;
the resulting int.is 50° 54'.

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RESURVEY OF EAST BOUNDARY T. 22 S., R. 2 E.

- Chains. North on random line on S.bdy.sec.1.
- 40.00 Slight trace of old $\frac{1}{2}$ cor. 52 lks.E. Set temp. $\frac{1}{2}$ sec.cor.
- 68.92 Intersect N.bdy.of Tp. 90 lks.E. of the cor.of Tps.21 and 22 S., Rs.2 and 3 E., heretofore described.
- Thence I run
- S 0° 45'E.on true line on E.bdy.sec.1,
- Descending in dense oak brush.
- 16.48 Gulch, 10 ft.deep, drains S. 30° W.
- 21.43 Beech brush; enter cedars and pine.
- 23.43 Gulch 15 ft.deep, drains S. 40° E.
- 28.28 Same gulch, drains S. 35° W.
- 28.93 Set a sandstone 16x10x6 ins., 11 ins.in the ground, for $\frac{1}{2}$ sec.cor., marked $\frac{1}{2}$ on W.face; and raise a mound of stones 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor.Pits impractical.
- A cedar 9 ins.dia.bears S. 4° W. 13 lks.dist.
marked $\frac{1}{2}$ S 1 B T
- A cedar, 9 ins.dia.bears N. 4° W. 12 lks.dist.
marked $\frac{1}{2}$ S 1 B T
- Descend in cedars and pine.
- 68.92 The cor.of secs.1,6,7, and 12.
- Land, mountainous and rolling.
- Soil, loam, 1st rate;
- Timber pine and cedar 47.50 chs.
- Mountainous land 68.93 chs.

June 13, 1907.

For general description see notes of subdivision
of this township.

Edward J. Kiser
Compassman for

Philip D.Schoeller P.S.

Decatur.

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Page

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Edward Nissen, Compassman for Deceased Philip D. Schoeber, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the East Bdy. Township 22 South, Range 2 East of the Salt Lake Base and Mer., Utah wing the respective capacities in which they acted:

Leon Wilson, Chainman.
Robert Gorlinski, Chainman.
France Mattsson, Moundman.
N. P. Rasmussen, Moundman.
Orval Clawson, Axman.
N. P. Rasmussen, Axman.
, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Edward Nissen, Compassman for Philip D. Schoeber, Deceased, United States Deputy Surveyor, in surveying all those parts or portions of the resurvey of the East Bdy. of Township 22 South, Range 2 East

base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for

Leon Wilson, Chainman.
Robert Gorlinski, Chainman.
N. P. Rasmussen, Moundman.
France Mattsson, Moundman.
Orval Clawson, Axman.
N. P. Rasmussen, Axman.
, Flagman.

scribed and sworn to before me this 28th day of June, 1907.



Edward Nissen
Compassman for Philip D. Schoeber
U.S. Dep. Surveyor, Deceased.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

Schoeber

Dec

I, Edward Nissen, Compassman for Philipp D., United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Jacob B. Blair

United States Surveyor General for Utah, bearing date of the

11th day of May, 1900, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the resurvey of the East Boundary of Township 22 South, Range 2 East.

of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Compassman for Philipp D. Schoeber
United States Deputy Surveyor
Deceased

Subscribed by said Edward Nissen, and sworn to before me,

this 22nd day of November, 1907.



U.S. Surveyor-General
for Utah.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, February 26, 1908

The foregoing field notes of the survey of the East Boundary of Township No. 22 South, Range No. 2 East of the Salt Lake Base and Meridian, Utah,

executed by Edward Nissen, Compassman for Philipp D. Schoeber. D. S., Dec'd under his contract No. 239, dated May 11, 1900, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

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C.

BOOK A-375

FIELD NOTES

RE
OF THE SURVEY OF THE

SOUTH BOUNDARY,

O F

TOWNSHIP NO. 22 SOUTH

RANGE NO. 2 EAST

Of the SALT LAKE BASE AND Meridian,

UTAH

AS SURVEYED BY

Schoeber

ward Nissen, Compassman for Philipp D., United States Deputy Surveyor, Dec'd,

der his Contract No. 239, dated May 11, 1900.

urvey commenced June 14, 1907.

urvey completed June 16, 1907.

Hugh H. 10. 46

NAMES AND DUTIES OF ASSISTANTS.

Leon Wilson, Chairman.

Robert Gorlinski, Chairman.

France Mattsson, Moundman.

Neils P. Rasmussen, Moundman.

Orval Clawson, Axman.

Neils P. Rasmussen, Axman.

BOOK A-375

INDEX DIAGRAM.

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Meanders Page _____

PRELIMINARY OATHS OF ASSISTANTS.

WE, Leon Wilson and Robert Gorlinski
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the
chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that
we will report the true distances to all notable objects, and the true lengths of all lines that we assist in
measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of
the south boundary of Township No. 22 South, Range No. 2 E. of the Salt
Lake Base and Meridian, Utah.

Leon Wilson, Chairman

Robert Gorlinski, Chairman

Subscribed and sworn to before me this 14th

day of June, 1907 } {



Compassman for Philipp D. Schoeber
U. S. Dep. Surveyor, Deceased.

WE, France Mattsson and Neils P. Rasmussen
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment
of corners, according to the instructions given us, to the best of our skill and ability, in the survey of
the south boundary of Township No. 22 South, Range No. 2 E. of the Salt
Lake Base and Meridian, Utah.

France Mattsson, Moundman

Neils P. Rasmussen, Moundman

Subscribed and sworn to before me this 14th

day of June, 1907 } {



Compassman for Philipp D. Schoeber
U. S. Dep. Surveyor, Deceased.

WE, Orval Clawson and Neils P. Rasmussen
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners
and other duties, according to instructions given us, to the best of our skill and ability, in the survey of
the south boundary of Township No. 22 South, Range No. 2 E. of the Salt
Lake Base and Meridian, Utah.

Orval Clawson, Axman

Neils P. Rasmussen, Axman

Subscribed and sworn to before me this 14th

day of June, 1907 } {



Compassman for Philipp D. Schoeber
U. S. Dep. Surveyor, Deceased.

I, _____, do solemnly swear that I will well and truly
perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the
survey of _____

Flagman

Subscribed and sworn to before me this _____

day of _____, 190_____ } {



RESURVEY SOUTH BOUNDARY T.22 S., R.2 E.

- Chains. Survey commenced June 14, 1907, and executed with the instrument described in book "A" of this survey. For complete test of instrument also see book "A".
- At 9h 0 m.a.m.l.m.t., I set off $38^{\circ} 51'N.$ on lat.arc; $23^{\circ} 15'N.$ on decl.arc; and determine a meridian with the solar at the cor.of Tps.22 and 23 S., Rs.2 and 3 E., heretofore described.
- Thence I run N. $89^{\circ} 50'W.$ on a blank line along S.bdy.of Tp.22 S. R.2 E.
- 79.50 Fall 23 lks.S.of cor.of secs.1,2,35, and 36, which is a trachyte stone 7 x 5 x 4 ins.above ground, marked and witnessed as described by the surveyor general.
- From cor.of secs.1,2,35, and 36 I run N. $89^{\circ} 50'W.$
- 78.99 To cor.of secs.2,3,34, and 35, which is a sandstone 9 x 5 x 5 ins.above ground, marked and witnessed as described by the surveyor general.
- Thence I run N. $89^{\circ} 50'W.$
- 79.32 To cor.of secs.3,4,33, and 34, which is a trachyte stone 13 x 8 x 6 ins.above ground, marked and witnessed as described by the surveyor general.
- Thence I run N. $89^{\circ} 50'W.$
- 90.45 Fall 5 lks.S.of the cor.of secs.4 and 5 T.23 S.R.2 E., which is a sandstone 5 x 8 x 5 ins.above ground, marked and witnessed as described by the surveyor general.
- 91.62 Fall 1.52 chs.north of the cor.of secs.32 and 33, which is a sandstone 10 x 8 x 6 ins.above ground, marked with 4 notches on E.and 2 notches on W.edge, with mound of stone west of cor.
- The line being out of limit for distance, and part of it for alinement, I resurvey this line for the south boundary of T.22 S.R.2 E.only.

June 14, 1907.

RESURVEY SOUTH BOUNDARY T.22 S., R.2 E.

Chains.

June 15: At 9h 0 m a.m.l.m.t., I set off $23^{\circ} 18'N$.on decl.arc; $38^{\circ} 51'N$.on lat.arc; and determine a meridian with the solar at the cor.of secs.32 and 33 above described.

Thence I run

$N.36^{\circ} 42'E$.on a true line on S.bdy.sec.33;

1.96 Intersct the cor.of secs.4 and 5 T.23 S.R.2 E.

Thence I runn

$S.89^{\circ} 48'E$.with continuous measurement

13.25 Enter dry wash, 20 lks.wide, 4 ft.deep, drains NW.

14.00 Leave dry wash; enter oak brush.

41.00 Leave oak brush.

48.50 Dry wash, 10 lks.wide, 3 ft.deep, course $S.74^{\circ}W$.

Ascend abruptly.

49.43 Set a sandstone $18 \times 9 \times 8$ ins., 12 ins.in the ground, for $\frac{1}{4}$ sec.cor.of sec.33, marked $\frac{1}{4}$ on N.face; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high N.of cor.

51.62 No trace of $\frac{1}{4}$ sec.cor.on N.bdy.sec.4, T.23 S.R.2 E.

56.50 Gentle ascent.

68.50 Steep ascent.

71.65 Foot of break, 50 ft.high, course $S.15^{\circ}E$. and $N.15^{\circ}W$.

74.15 Top of same:

90.22 Set a sandstone $24 \times 10 \times 4$ ins., 18 ins.in the ground for cor.of secs.33 and 34, marked with 3 grooves on E. and W.faces, and C C on N.face; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high N.of cor. Pits impractical.

I destroy all marks on the old corner pertaining to T. 22 S., R.2 E.

Land, mountainous.

Soil, loam; 2d rate.

No timber.

Undergrowth oak brush 27.00 chs.

Mountainous land 90.46 chs.

June 15: At this cor.I set off $23^{\circ} 18'N$.on decl.arc;

-3-

RESURVEY SOUTH BOUNDARY T. 22 S., R. 2 E.

Chains. and at 12h M.I.M.T., observe the sun on the meridian the resulting lat. is $38^{\circ} 51' N.$,

- S. $89^{\circ} 48' E.$ along S.bdy.sec.34;
- 2.19 The cor. of secs. 3 and 4, T. 23 S., R. 2 E.
Thence S. $89^{\circ} 50' E.$ with continuous measurement,
Ascending.
Enter dense oak brush.
- 17.19 Dividing ridge bet. Gooseberry Creek and Brown's Hole
bears S. $26^{\circ} E.$ and N. $26^{\circ} W.$
Descend in dense brush.
- 33.49 Set a sandstone 18x12x5 ins., 12 ins. in the ground for
a sec.cor. of sec.34, marked Δ on N.face, and raise a
mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N.of cor. Pits
impracticable.
- 40.00 The $\frac{1}{2}$ sec.cor.on N.bdy.sec.3, T. 23 S., R. 2 E., which
is a sandstone 12x16x5 ins. above ground, firmly
set and marked and witnessed as described by the sur-
veyor general.
- 41.89 Hollow drains E.of N.
Leave brush; enter quaking asp.
- 50.59 Top of ridge bears NE. and SW.
Leave quaking asp.
- 63.69 Rapid descent in dense oak brush.
- 68.19 Set a sandstone 20x10x10 ins., 15 ins. in the ground
for cor.of secs. 34 and 35, marked with 2 grooves on E.
and 4 grooves on W.face and C C on N.face; and raised
a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N.of cor.Pits
impracticable.
I destroy all marks on the old cor.pertaining to secs.
34 and 35 T. 22 S., R. 2 E.
- 80.00 Land, mountainous.
Soil, loam; 2d rate.
Timber, quaking asp, 13.10 chs.
Undergrowth oak brush.

RESURVEY SOUTH BOUNDARY T. 23 S., R. 2 E.

Chains. Mountainous land 80.00 chs.

June 15, 1907.

June 16: At 9 h.0 m.a.m.l.m.t. I set off $38^{\circ} 51'$ on lat. arc; $23^{\circ} 20'$ N.on decl.arc; and determine a meridian with the solar at the cor.of secs.2 and 3 T. 23 S.

R 2 E. Thence I run

S. $89^{\circ} 50'$ E.along S.bdy.sec.35

Descending in dense oak brush.

1.51 The cor.of secs.2 and 3, T. 23 S., R. 2 E.

11.00 Ravine 20 ft.deep, drains south.

23.50 Spur ridge, 50 ft.high, bears S. 30° E.

40.00 Set a sandstone 19x8x6 ins., 13 ins.in the ground, for $\frac{1}{4}$ sec.cor.sec.35, marked $\frac{1}{4}$ on N.face; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high N.of cor. Pits impracticable.

41.01 No trace of $\frac{1}{4}$ sec.cor.on N.bdy.sec.2 T. 23 S., R. 2 E.

47.50 Gulch, 100 ft.deep, drains SE.

55.50 Ridge, 100 ft.high bears N. 20° W. and S. 20° E.

72.00 Gully, 10 ft.deep, drains SE.

80.00 Set a sandstone 16x9x6 ins., 11 ins.in the ground for cor.of secs.35 and 36, marked with 1 groove on E. and 5 grooves on W.face and C C on N.face; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high N.of cor.Pits impracticable.

This corner stands in scattering oak brush.

I destroy all marks on the old cor.pertaining to secs. 35 and 36 T. 23 S., R. 2 E.

Land; mountainous.

Soil, loam; lat rate.

No timber.

Undergrowth oak brush.

Mountainous land 80.00 chs.

June 16: At this cor.I set off $23^{\circ} 20'$ N.on decl.arc;

-5-

RESURVEY SOUTH BOUNDARY T. 22 S., R. 2 E.

- Chains. and at 0 h. 0 m. 13 s.p.m.l.m.t. observe the sun on the meridian; the resulting lat. is $38^{\circ} 51' N.$
-
- Thence I run S. $89^{\circ} 50' E.$ along S.bdy.sec.36
Descend.
- .50 The cor.of secs.1 and 2, T. 23 S. R. 2 E.
Thence I run
S. $89^{\circ} 40' E.$ with continuous measurement
Gentle descent.
- 18.38 Brown's Hole Creek, drains north.
- 22.22 Ruined cabin bears north 2.45 chs.dist.
- 40.00 Set a sandstone 11x10x5 ins., 8 ins.in the ground for $\frac{1}{2}$ sec.cor.sec.36, marked $\frac{1}{2}$ on N.face, and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high N.of cor.
Pits impracticable.
- 40.25 Intersect.the $\frac{1}{2}$ sec.cor.on N.side sec.1, which is a sandstone 8' x 8' x 6 ins:above.ground, marked and witnessed as described by the surveyor general.
- 56.50 Ascend in scattering brush.
- 60.50 Descend.
- 65.00 Gulch, drains southwesterly.
- 65.50 Steep ascent in dense oak brush.
- 80.00 The cor.Tps.22 and 23 S., Rs. 2 and 3 E.
Land, mountainous.
Soil, loam; 1st rate.
No timber.
Undergrowth oakbrush 18.50 chs.
Mountainous land 80.00 chs.

June 16, 1907.

For general description see notes of subdivision
of this township.

Edward Kissen, Compassman for
Philipp D. Schoeber, Dep. Surveyor, Dec'd.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Edward Nissen, Compassman for Deceased
 Philipp D. Schoeber, United States Deputy Surveyor, to assist in running, measuring, and
 taking the lines and corners described in the foregoing field notes of the survey of the south
 boundary of Township No. 22 South, Range No. 3 East of the Salt Lake Base
 Meridian, Utah, during the respective capacities in which they acted:

Leon Wilson, Chainman.
 Robert Gorlinski, Chainman.
 France Mattsson, Moundman.
 Neils P. Rasmussen, Moundman.
 Orval Clawson, Axman.
 Neils P. Rasmussen, Axman.
 , Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Edward Nissen, Compassman for Philipp
 Deceased.
 Schoeber, United States Deputy Surveyor, in surveying all
 e parts or portions of the resurvey of the South Boundary of Township No.
 South, Range No. 3 East of

of the Salt Lake
 case and State of Utah, which are represented
 meridian, State of Utah, which are represented
 re
 the foregoing field notes as having been surveyed by him and under his direction; and that said survey
 been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
 er monuments established, according to the instructions furnished by the United States Surveyor
 eral for Utah.

Leon Wilson, Chainman.
 Robert Gorlinski, Chainman.
 Neils P. Rasmussen, Moundman.
 France Mattsson, Moundman.
 Orval Clawson, Axman.
 Neils P. Rasmussen, Axman.
 , Flagman.

scribed and sworn to before me this 28th
 day of June, 1907 }
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Edward Nissen
 Compassman for Philipp D. Schoeber
 U.S. Deputy Surveyor, Deceased.

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 ccccc

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

Schoeber,

Dec'

I, Edward Nissen, Compassman for Philipp D. United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Jacob B. Blair, United States Surveyor General for U t a h, bearing date of the 11th day of May, 190⁰, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for U t a h, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the resurvey of the south boundary of Township No. 22 South, Range No. 2 East.

of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for U t a h, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Edward Nissen

Compassman for Philipp D. Schoeber

United States Deputy Surveyor

Deceased.

Subscribed by said Edward Nissen, and sworn to before me,

this 22d day of November, 1907.



U.S. Surveyor-General

for Utah.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, February 26, 1908

The foregoing field notes of the survey of the South Boundary of Township No. 22 South, Range No. 2 East of the Salt Lake Base and Meridian, Utah,

executed by Edward Nissen, Compassman for Philipp D. Schoeber, Deceased under his contract No. 239, dated May 11, 1900, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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BOOK A-375

D.

FIELD NOTES

RE
OF THE SURVEY OF THE

SUBDIVISION

P.R.

TOWNSHIP NO. 22 SOUTH, RANGE NO. 2 EAST

Of the SALT LAKE BASE AND Meridian,

STATE OF UTAH,

AS SURVEYED BY

Ard Nissen, Compassman for Philipp D., Schoeber, United States Deputy Surveyor,
Deceased.

Under his Contract No. 239, dated May 11, 1900

Survey commenced October 31, 1909

Survey completed November 4, 1909

NAMES AND DUTIES OF ASSISTANTS.

Davia Bird, Chainman.

Robert Gorlinski Chainman.

Peter Bird, Flagman.

BOOK A-375

INDEX DIAGRAM.

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Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

WE, David Bird

and

Robert Gorlinski

do solemnly swear that we will well and faithfully execute the duties of chairmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the subdivision of fractional township N. 22 S. R. 2 E., Salt Lake Base and Meridian, Utah.

David Bird, Chairman.
Robert Gorlinski, Chairman.

Subscribed and sworn to before me this 31stday of October, 1909 } }

Edward Nissen
Compassman for Philip D. Schober
U.S. Dep. Surveyor, Deceased.

WE, _____ and _____

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

, Moundman,

, Moundman,

Subscribed and sworn to before me this _____

day of _____, 1909 } }



WE, _____ and _____

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

, Axman,

, Axman,

Subscribed and sworn to before me this _____

day of _____, 1909 } }



I, Peter Bird, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the subdivision of fractional township N. 22 S. R. 2 E. Salt Lake Base and Meridian, Utah.

Peter Bird, Flagman

Subscribed and sworn to before me this 31stday of October, 1909 } }

Edward Nissen
Compassman for Philip D. Schober
U.S. Dep. Surveyor, Deceased.

RE-SURVEY OF SUBDIVISION OF T. 22 S., R. 2 E.

Survey commenced October 31, 1909, and executed with
the instrument described in book "A" of this survey.

From previous retracments I find that the line upon
which I am to close my new survey is out of limits
for distance and part of it, for alignment, I deem it
necessary to resurvey the old lines as follows:

At 2h 20 m.p.m.l.m.t. I set off 14° 06' S. on the decl.

Following arc; 38° 51' N. on the lat.arc; and at the cor. of secs;
32 and 33 on S.bdy. of Tp., heretofore described I de-
termine a meridian with the solar, and mark a point
thereof by a cross on a stone firmly set in the ground
no. 5 chs. N. of the corner. J.A : 2001 , I redrew
said avendo .S.W. f.m. 8 MM H 11 J's on October 31, 1909.
1909

November 1: At 4h 44m a.m.l.m.t., I observe Polaris at
western elongation, in accordance with Manual of In-
structions, and mark the maximum position in azimuth
by a tack in a wooden peg set in the ground 5 chs. to
N. of my station.

At 8h 0 m.a.m.l.m.t., I lay off the azimuth of Polaris

1° 31' to the east, and mark the meridian thus de-
termined, by cutting a small groove in the stone set
last evening on which the meridian falls 0.4 ins. 0.0
in the west of the mark determined by the solar. J.A : 2001 , I redrew
At 8h 32m a.m.l.m.t. I set off 14° 20'S. on the decl.
Following arc; 38° 51' N. on the lat.arc; and mark the meridian
thus determined by the solar by a cross on the stone
already set 5 chs. N. of my station; this mark falls
0.2 ins. west of the meridian established by the Polar-
is observation.

The solar apparatus by p.m. and a.m. observations defines
positions for meridian about 0' 21" east and 0' 11"
west of the meridian established by the Polaris obser-
vations. J.A : 2001 , I redrew

RESURVEY OF SUBDIVISION OF T.22 S., R.2 E.

Chains.	Observation; therefore I conclude that the adjustments of the instrument are satisfactory. At 11 h 32 m a.m. The magnetic bearing of the meridian at 8h 32m a.m. of Nov. 1, 1909 is N.16° 45' W.; the angle thus determined gives the mag. decl. 16° 45' E. to 1784 obs constab vol From the cor. already described I run across line old no. 8 North on a blank line bet. secs. 32 and 33,
40.00	Trace of old corner stone lying down; marks partly ef- faced by weather. 9 ft to v.g. 8 no 88 obs S8
81.40	Fall 1 link west of cor. of secs. 28, 29, 32, and 33, part- ly destroyed, lying down in mound of stones.
	November 1, 1909: At this cor. I set off 14° 24' S. on decl. arc, and at 11 h 44m a.m.l.m.t., observe the sun on the meridian; the resulting lat. is 38° 52'
	November 1, 1909: At this cor. I set off 14° 24' S. on decl. arc, and at 11 h 44m a.m.l.m.t., observe the sun on the meridian; the resulting lat. is 38° 52'
40.00	No trace of cor.; set temp. + sec. cor. out
64.70	Trace of an old corner, 1.04 chs. E. of lined
80.00	No trace of cor. . no obs v.g. 10. V
	November 1, 1909: At this cor. I set off 14° 24' S. on decl. arc, and at 11 h 44m a.m.l.m.t., observe the sun on the meridian; the resulting lat. is 38° 52'
40.00	No trace of cor.; set temp. + sec. cor. out
67.62	Fall 2.35 chs. West of cor. of secs. 16, 17, 20, and 21, which is a sandstone boulder 4 x 5 x 2 1/2 ft. above ground, marked with 4 grooves on top; from which sprouts no less than 8 pine 8 in. diam. bears N.33° W. 21 lks. dist. marked SW17; other marks defaced.
	November 1, 1909: At this cor. I set off 14° 24' S. on decl. arc, and at 11 h 44m a.m.l.m.t., observe the sun on the meridian; the resulting lat. is 38° 52'
	November 1, 1909: At this cor. I set off 14° 24' S. on decl. arc, and at 11 h 44m a.m.l.m.t., observe the sun on the meridian; the resulting lat. is 38° 52'
	A fallen pine 10 in. diam. bears S.37° W. 30 lks.
	dist., marks not readable. no obs
	The cor. of secs. 17, 18, 19 and 20 bears N.89° 46' W. 80.68 chs.

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RESURVEY OF SUBDIVISION OF T.22 S., R.2 E.

Chains. c. and C.C.W.P.C.V. stood made ant 11.0000 A.M. and
November 2: At 8h 02m a.m.l.m.t., I set off $14^{\circ} 38' S.$
 $T 22 S R 2 E$ N. 45° E. distance
on decl. arc; $38^{\circ} 54' N.$ on lat. arc; and determine a me-
ridian with the solar at the cor. of secs. 16, 17, 20, and
21. Thence I run

North on a blank line bet. secs. 16 and 17,

52.38 Fall 53 lks. east of $\frac{1}{4}$ sec. cor. lying down in mound of
stone. no sec. cor. until shield is no noted

80.89 "Fall 83 lks. east" of cor. of secs. 8, 9, 16 and 17, lying.
to falls down in mound of stone was sandstone $4' x 11' x 30$ ins.
no shield marked with 4 grooves on E. and S. edges; from which
emerged $N.83^{\circ} E.$ pine 7 ins. diam. bears $S.67^{\circ} W.$ 41 lks. dist.
S.E. side of hill marked S.17 E. T. 22 S R 12 E $2^{\circ} 30' E.$ 00.01 base said a
new pine 16 ins. diam. bears $N.53^{\circ} W.$ 34 lks. marked
below, side of S.80 T. 22 S R 12 E $2^{\circ} 30' E.$ 00.01 base

A pine 12 ins. diam. bears $S.43^{\circ} E.$ 44 lks. dist.

marked S.16 E. T. 22 S R 12 E $2^{\circ} 30' E.$ 00.01 base said a

sec. old blazed lines. run north and south from corner. $N.89^{\circ} 51' W.$ 79.86
The cor. of secs. 7, 8, 17 and 18 bears $N.89^{\circ} 51' W.$ 79.86
no marks; shield noon east of cor. 2 reduvex. no J.
old blazed line west of cor. no J. 10 ft. above ground and 10 ft. above

00.01 S. reduvex

From the cor. of secs. 8, 9, 16 and 17 I run

North on a blank line bet. secs. 8 and 9,

40.00 No trace of $\frac{1}{4}$ sec. cor.

80.49 Fall 1,52 lks. east of cor. of secs. 4, 5, 8, and 9, a gray
blue sandstone $3' x 10' x 7$ ins. above ground, marked with 5
grooves on S. and 4 grooves on E. edges; mound of stone
 $2' 2" ft.$ base; $1\frac{1}{2}$ ft. high W. of cor.; from which
A pine 9 ins. diam. bears $N.61^{\circ} E.$ 11 lks. dist.

W. of cor. marked T 22 S R 2 E S 4 B T 00 00.01 base 00.01

A pine 9 ins. diam. bears $S.17^{\circ} W.$ 34 lks. dist. 00.01

W. of cor. marked T 22 S R 2 E S 8 B T 00 00.01 base 00.01

A pine 7 ins. diam. bears $S.63^{\circ} E.$ 19 lks. dist. 00.01

W. of cor. marked T 22 S R 2 E S 9 B T 00 00.01 base 00.01

W. of cor. marked T 22 S R 2 E S 10 B T 00 00.01 base 00.01

RESURVEY OF SUBDIVISION OF T.22 S., R.2 E.

Chains. A cedar 16 ins. diam. bears N.73°W.36 lks. dist.
marked T 22 S R 2 E S 15 B T
The cor. of secs. 5, 6, 7, and 8 bears N.88° 52'W.80.20 chs.
100 ft. deep to. true cor. of sec. 15. I run a line N.88° 52'W. 80.20 chs.

From the cor. of secs. 4, 5, 8, and 9 I run a line N.88° 52'W.
North on a blank line bet. secs. 4 and 5,

33.37 Precipitous descent to ravine "Cottonwood Hollow", 2500 ft. deep, which I cannot chain; the opposite side of ravine is also precipitous; I set a flag on line on top of precipice N. of ravine, and from 33.37 measure a base east 10.00 chs. to a point from which the flag N. of ravine bears N.33° 41'W.; the distance then is base x tang. $56^{\circ}19' \times 10 \times 1.50038 = 15$ chs., which makes .000000 error ratio, and 21 mds.

48.37 Top of precipice N. siue of ravine.

79.27 Intersect N. bdy. of Tp. 1.01 chs. E. of cor. of secs. 4, 5, 32 and 33. I stood 91 ons. 71.6. N. base to. true off

Noted November 2, 1909: at the noon hour the sky was overcast and observation for latitude not possible.

November 2, 1909.

Chains. A cedar 16 ins. diam. bears N.88° 52'W. 80.20 chs. marked T 22 S R 2 E S 15 B T
November 3: At 8h. 32m s.m.l.m.t., I set off 14° 58'S. on decl. arc; 38° 56'N. on lat. arc; and determine a meridian with the solar at the cor. of secs. 4, 5, 32, and 33 on N. bdy. of Tp., heretofore described. Thence I run S.0° 44'E. on a true line bet. secs. 4 and 5,

Over stony ground; through scattering cedars.

12.00 Ridge, 50 ft. high, bears N.45°E. and S.45°W.

16.10 Gully 50 ft. deep, drains S.45°W. 0 mds.

22.00 Ridge, 100 ft. high bears N.45°E. and S.45°W.

26.00 Steep descent; leave timber.

28/27 Set a sandstone 16 x 8 x 5 ins., 12 ins. in the ground, for 1/2 sec. cor., marked + on W. face; and raise a mound

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RESURVEY OF SUBDIVISION ON T. 22 S., R. 2 E.

Chains.	of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high w.of cor. Pits impracticable.
28.80	A cedar 15 ins. diam. bears N.57°E. 56 lbs.dist: mzd.4 S 4 B T
29.67	A pinon pine 13 ins. diam. bears N.43°W. 27 lbs. dist:, marked 4 S 5 B T
30.90	Top of ledges.
30.90	Rim of precipice 500 ft.deep, N.side Cottonwood hollow.
39.76	No trace of 1 sec.cor.on E.bdy.sec.5.
45.90	Rim of precipice 500 ft.deep; S.Bide Cottonwood hollow. Steep ascent through scattering cedar and pine timber.
70.27	Top of ridge, bears N.45°E. and S.45°W.
78.92	Gulch, chains S.45°W.
79.27	The cor.of secs.4,5,8, and 9. Land, broken. Soil, stony; 2nd rate. Timber, pine-and-cedar. Mountainous land 79.27 chs.
80.00	Set a sandstone 18 x 7 x 4 ins., 4 ins.in the ground, to bedrock, in mound of stone for 1 sec.cor.of sec.9,mka. S.1° 05'E.on a true line bet.secs.8 and 9. Ascend in cedarw and pine.
15.00	Top of ridge, 200 ft.high bears N.80°E. and S.80°W.
29.00	Set a sandstone 18 x 7 x 4 ins., 4 ins.in the ground, to bedrock, in mound of stone for 1 sec.cor.of sec.9,mka. 1/2 on W.face; and raise a mound of stone 2 ft.base, 1 $\frac{1}{2}$ ft.high w.of cor. Pits impracticable.
29.27	A cedar 6 ins.diam.bears N.78° 45'W. 18 lbs.dist. mzd.4 S 8 B T
37.13	A cedar 6 ins.diam.bears S.58° 15'W.49 lbs.dist. mzd.4 S 8 B T
38.13	Top of cliff; leave timber.
39.63	Foot of cliff; 50 ft.high, bears E.and W.
40.245	Enter canon bottom.
40.245	No trace of 1 sec.cor.on E.bdy.sec.8.

RESURVEY OF SUBDIVISION ON T. 22 S., R. 2 E.

Chains	cut 16 rods 10 ft. wide, 1 ft. deep, at 30° to N. 65° W.	0.88
41.63	R.G.W.R.R. track bears N. 65° 30' W. and S. 65° 30' E.	0.88
41.69	Wagon road to Castle Valley, bears N. 65° W. and S. 65° E.	0.88
42.38	Salina Creek, 1 ch. wide, 2 ft. deep, drains N. 65° W.	0.88
42.63	Ascend in cedars and pine.	0.88
62.63	Foot of cliff 50 ft. high, bears E. and W.	0.88
63.18	Top of cliff.	0.88
70.00	Top of ridge, bears E. and W.	0.88
	Descend in cedars and pine.	0.88
73.77	Top of ledge, 20 ft. high, course E. and W. to mtn	0.88
74.00	Foot of ledge.	0.88
80.49	The cor. of secs. 8, 9, 16, and 17. Land, mountainous. Soil, loam, 1st rate; stony, 2nd. rate. Timber, pine and cedar. Mountainous land 80.49 chs.	0.88

S. 0° 35' E. on a true line bet. secs. 16 and 17.

	Descend in heavy cedars and pine.	
20.89	Gulch 150 ft. deep, drains N. 70° W.	
28.51	Set a sandstone 16 x 8 x 7 ins., 12 ins. in the ground, for $\frac{1}{2}$ sec. cor., of sec. 16, marked $\frac{1}{2}$ on W. faces and raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.	
	Pits impracticable.	
	A pine 7 ins. diam. bears S. 38° 39' E. 39 lks. dist. marked $\frac{1}{2}$ S 16 B T	
	A pine 12 ins. diam. bears N. 74° 44' W. 16 lks. dist. marked $\frac{1}{2}$ S 17 B T	
40.445	No trace of $\frac{1}{2}$ sec. cor. on E. boundary sec. 17,	
60.89	Gulch, 10 ft. deep, drains N. 60° W.	
73.61	Gulch, 20 ft. deep, drains N. 70° W.	
74.51	Ridge, 40 ft. high, bears N. 70° W. and S. 70° E. Descend.	
76.51	Ascend.	
80.89	The cor. of secs. 16, 17, 20, and 21. to point on S. 0°	

C. RESURVEY OF SUBDIVISION OF T.22 S.R.2 E.

Chains Land, broken mountains. The dirt road I made
not one Soil, gravelly loam; infertile; stony, moderate.
S. N. Timber, pine and cedar; very heavy.
Elevation Mountainous land: 80-890 chs. A m.s., no elevation
Note November 3, 1909: At the noon hour the sky was
overcast, and observation for latitude not possible.
Folio No. 3000, page 1000, for November 3, 1909.

S. N. 3000, page 1000, for November 3, 1909.

November 4: At 9 B.M. 32m. 48m. 11m. t., I set off $15^{\circ} 16' S.$ on
the decl. arc; $38^{\circ} 54' N.$ on the lat. arc; and determine a
meridian with the solar at the cor. of secs. 16, 17, 20,
and 21. Thence I run a line due N.E. to S. $0^{\circ} 55' W.$ on true line between sec. 20 and 21,
Ascend through heavy timber.

- 11.00 Old wood rose on ridge 200 ft. high bears N. $40^{\circ} W.$ and S.
 $40^{\circ} E.$
17.62 Gulch, drains N. $60^{\circ} W.$, 100 ft. deep.
27.62 Ridge, 100 ft. high, bears N. $70^{\circ} W.$ and S. $70^{\circ} E.$
Set a sandstone 20 x 16 x 6 ins., 15 ins. in the ground,
for $\frac{1}{2}$ sec. cor. of sec. 21, marked $\frac{1}{2}$ on W. face; and raise
a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Pits
impracticable.
A pine 4 ins. diam. bears N. $90^{\circ} 50' E.$ 5 lbs. dist.
marked $\frac{1}{2}$ S 21 B T
A pine 5 ins. diam. bears S. $42^{\circ} 36' W.$ 27 lbs. dist.
marked $\frac{1}{2}$ S 20 B T
Descend.
No trace of $\frac{1}{2}$ sec. cor. on E. bay. sec. 20.
Ascend.
Descend.
Wash, 5 ft. deep, drains N. $45^{\circ} W.$
Wash, 5 ft. deep, drains N. $45^{\circ} W.$
Wash, 5 ft. deep, drains N. $45^{\circ} W.$
As this point is the only one on the E. bay. or sec. 20

RESURVEY OF SUBDIVISION OF T. 22 S., R. 2 E.

Chains. where I can find any trace of a corner; I set a sandstone 18 x 12 x 7 ins. on bedrock in mound of stone for re-established cor. or secs. 20 and 29; marked with 2 notches on S. and 4. notches on E.edges; and raise a mound of stone 2 ft. base, 1½ ft. high w.or cor. Pits impracticable. not held because one, too above ground. A pine 12 ins. diam. bears S. 67°W. 67 lks. dist. marked T 22 S R 2 E S 29 B T

A pine 14 ins. diam. bears N. 48°W. 63 lks. dist.

Point 201 the cmarked. T. 22 S R 2 E S 20 B T N 200' below

Land, rolling and mountainous. S. 14 ins. off

Soil, sandy loam, 1st rate; stony 2d rate.

Timber, cedar, pine and aspen, very heavy.

Mountainous land, heavily timbered. 82992 chs.

Results of survey of 1900 open

Point 202, a spruce 14 ins. dia 600' south of above point 200. 100 ft. deep. S. 0° 55'W. on a true line bet. secs. 28 and 29. 100 ft. deep. S. 0° 55'W. on a true line bet. secs. 28 and 29. Descend through heavy cedar and pine. 100 ft. deep. S. 0° 55'W. on a true line bet. secs. 28 and 29. Ascend. 100 ft. deep. S. 0° 55'W. on a true line bet. secs. 28 and 29. Descend. 100 ft. deep. S. 0° 55'W. on a true line bet. secs. 28 and 29. Ascend. 100 ft. deep. S. 0° 55'W. on a true line bet. secs. 28 and 29. Ascend. 100 ft. deep. S. 0° 55'W. on a true line bet. secs. 28 and 29. Set a sandstone 15 x 8 x 8 ins., 10 ins. in the ground, for ¼ sec.cor. of sec. 28, marked ¼ on W.face; and raise a mound of stone 2 ft. base, 1½ ft. high w.or cor. Pits impracticable. 100 ft. p. distance.

A pinon pine, 16 ins. diam. bears S. 43°E. 22 lks. 100 ft. deep. S. 0° 55'W. on a true line bet. secs. 28 and 29. dist., marked ¼ S 28 B T

A pinon pine, 15 ins. diam., bears N. 29°W. 50 lks. 100 ft. deep. S. 0° 55'W. on a true line bet. secs. 28 and 29. dist., marked ¼ S 29 B T

32.30 Abrupt descent. 100 ft. deep. S. 0° 55'W. on a true line bet. secs. 28 and 29. dist., marked ¼ S 28 B T

32.35 No trace of ¼ sec.cor.on E.bury.of sec.29. 100 ft. deep. S. 0° 55'W. on a true line bet. secs. 28 and 29. dist., marked ¼ S 29 B T

36.00 Mud Spring Hollow, drains N. 35°W. 100 ft. deep. S. 0° 55'W. on a true line bet. secs. 28 and 29. dist., marked ¼ S 28 B T

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RESURVEY OF SUBDIVISION OF T.22 S., R.2 E.

Chains.

- 51.90 Ascend in oak brush.
 64.70 The cor. of secs. 28, 29, 32, and 33. Set a trachyte stone 15 x 9 x 6 ins., 10 ins. in the ground, for re-established cor. of secs. 29 and 32, mkd. with 1 notch on S. and 4 notches on E. edges; and raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high w. of cor. Pits impracticable.
 A pine 6 ins. cirm. bears S.86° 15'W. 229 lbs. dist. marked T 22 SR 2 E S. 32 B T
 No other trees within limits.
 Land, rolling mountains.
 Timber, cedar, pinon pine and aspen.
 Undergrowth oak brush.
 Soil, gravelly loam 2d rate.
 Mountainous land, heavily timbered or covered with oak brush 64.70 chs.

South on a true line bet. secs. 32 and 33,

- 1.40 Ascend in oak brush.
 6.40 Leave oak brush; enter cedars and pine.
 10.90 Ridge 50 ft. high bears N.65°W. and S.65°E.
 12.00 Descend in cedars and pine.
 17.40 Enter oak brush.
 20.90 Gulch, 50 ft. deep, drains N.65°W.
 Steep ascent in oak brush.
 34.40 Ridge, 100 ft. high bears N.75°W. and S.75°E.
 Descend in cedars.
 38.40 Leave cedars.
 40.82 Wash, 6 ft. deep, drains S.45°W.
 41.40 Set a sandstone 20 x 17 x 10 ins., 15 ins. in the ground for re-established $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high w. of cor. Pits impracticable.
 No trees within limits.

RESURVEY OF SUBDIVISION OF T.22 S., R.2 E.

Chains.

54.40 Ridge, 50 ft. high, bears E. and W.

58.30 Descend in oak brush.

59.40 Enter pinon pine.

62.40 Leave timber; enter oak brush.

65.40 Ascend in oak brush.

68.57 Ridge, 30 ft. high, bears S.80°W. and N.80°E.

Descend in cedars and pine.

76.40 Guich, 20 ft. deep, drains S.80°W.

81.40 The cor. of secs. 32 and 33.

Lava, mountainous.

Soil, stone loam; 2nd rate.

Timber, pine and cedar.

Undergrowth oak brush.

Mountainous land 81.40 chs.

Note: November 4, 1909: A snowstorm at the noon hour

made observation for latitude impossible.

November 4, 1909.

For general description see notes of subdivision

of this township.

Edward H. Jensen 03.01
Compassman for Philipp D. Schoeber,

U.S. Dep. Surveyor, Deceased.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Edward Nissen, Comptassman for
Philip D. Schreber, United States Deputy Surveyor, to assist in running, measuring, and
 finding the lines and corners described in the foregoing field notes of the survey of the subdivision of
 fractional township No. 22 S., R. 2 E., Salt Lake Base and Meridian, Utah
 giving the respective capacities in which they acted:

David Bird, Chainman.

Robert Gorlinski, Chainman.

 , Moundman.

 , Moundman.

 , Axman.

 , Axman.

Peter Bird, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Edward Nissen, Comptassman for Philip
D. Schreber, United States Deputy Surveyor, in surveying all
 parts or portions of the subdivision of fractional township No. 22 South
range No. 2 East

 , of the Salt Lake
Base and meridian, State of Utah, which are represented
 foregoing field notes as having been surveyed by him and under his direction; and that said survey
 was made in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
 monuments established, according to the instructions furnished by the United States Surveyor
 General for Utah.

 , Chainman.

Robert Gorlinski, Chainman.

 , Moundman.

 , Moundman.

 , Axman.

 , Axman.

Peter Bird, Flagman.

scribed and sworn to before me this 4th
 day of November, 1909 }
 ay of

222222
888888

Edward Nissen
Comptassman for Philip D. Schreber
U.S. Dep. Surveyor, Deceased

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

D.Schoeber

Dec'

I, Edward Nissen, Compassman for Philipp D. Schoeber, United States Deputy Surveyor, Deceased, solemnly swear that, in pursuance of a contract received from Jacob B. Blair, United States Surveyor General for U. t. s. h., bearing date of the 11th day of May, 1900, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the resurvey of the subdivision of Township 22 South, Range 2 East.

..... of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Edward Nissen Compassman for
Philipp D. Schoeber, United States Deputy Surveyor,
Deceased.

Subscribed by said Edward Nissen, and sworn to before me,

this 20th day of January 1913. *J. H. Marshall*

○○○○○
○ SEAL ○
○○○○○

U. S. Surveyor-General
for Utah.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Jan. 22, 1913.

The foregoing field notes of the survey of subdivisional lines, Township No. 22 South, Range No. 2 East, or the Salt Lake Base and Meridian, Utah,

executed by Edward Nissen, Compassman for Philipp D. Schoeber, Deceased, under his contract No. 239, dated May 11, 1900, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

J. H. Marshall
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in has been correctly copied from the original notes on file in this office.

United States Surveyor General

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BOOK A-375

E.

FIELD NOTES

OF THE SURVEY OF THE

S U B D I V I S I O N

O F

FRACTIONAL TOWNSHIP NO. 22 SOUTH

RANGE NO. 2 EAST

Of the SALT LAKE BASE AND Meridian,

U T A H,

AS SURVEYED BY

Schoeber,

ward Niessen, Compassman for Philipp D., United States Deputy Surveyor, Dec'd.

Under his Contract No. 239, dated May 11, 1900.

Survey commenced June 18, 1907.

Survey completed June 19, 1908.

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High 38.17' 81
closing 5.15'

NAMES AND DUTIES OF ASSISTANTS.

1907:

Leon Wilson, Chainman.

Robert Gorlinski, Chainman.

France Mattsson, Moundman.

N. P. Rasmussen, Moundman.

Orval Clawson, Axman.

N.P'Rasmussen, Axman.

1911:

Robert Gorlinski Chainman.

D.H.Brighton, Chainman.

BOOK A-375

INDEX DIAGRAM.

Township 22 South, *Range* 2 East

6	5	4	41	8	23	2	12	1
		40		39		22		11
7	8	9	38	10	21	11	10	12
		36		35		21		9
18	17	16	33	15	19	14	8	13
		32		31		18		7
10	20	21	30	22	17	23	6	24
		29		28		16		5
30	29	28	27	27	15	26	4	25
		26		25		14		2
31	32	33	24	34	13	35	3	36

Meanders Page _____

PRELIMINARY OATHS OF ASSISTANTS.

WE, Leon Wilsonand Robert Gorlinski

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the subdivision of fractional township No. 22 S., R. 2 E., Salt Lake Base and Meridian, Utah.

Leon Wilson

Chainman.

Robert Gorlinski

Chainman.

Subscribed and sworn to before me this 18thday of June

, 1907



Compassman for Philipp D. Schoeber
U.S. Dep. Surveyor, Deceased.

WE, France Mattssonand Neils P. Rasmussen

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of the subdivision of fractional township No. 22 S., R. 2 E., Salt Lake Base and Meridian, Utah.

France Mattsson

Moundman.

Neils P. Rasmussen

Moundman.

Subscribed and sworn to before me this 18thday of June

, 1907



Compassman for Philipp D. Schoeber
U.S. Dep. Surveyor, Deceased.

WE, Orval Clawsonand Neils P. Rasmussen,

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of the subdivision of fractional township No. 22 S., R. 2 E., Salt Lake Base and Meridian, Utah.

Orval Clawson

Axman.

Neils P. Rasmussen

Axman.

Subscribed and sworn to before me this 18thday of June

, 1907



Compassman for Philipp D. Schoeber
U.S. Dep. Surveyor, Deceased.

I, , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of .

Flagman.

Subscribed and sworn to before me this day of

, 1900



BOOK A-375

INDEX DIAGRAM.

Township _____, *Range* _____

6	5	4	3	2	1
7	8	9	10	11	12
16	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page _____

PRELIMINARY OATHS OF ASSISTANTS.

WE, Rott. Juriniskiand D. H. Brighton

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of subdivisional lines in Township 22 S., R. 2 E.S.L.B. & M., Utah.

Rott. Juriniski

, Chainman.

D. H. Brighton, Chainman.Subscribed and sworn to before me this 14day of June, 1901

Edward Nissen Commissioner
for Philipp D. Schoeber,
U.S. Dep. Surveyor, Deceased.

WE,

and

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

, Moundman

, Moundman

Subscribed and sworn to before me this

{

day of June, 1901

WE,

and

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

, Axman

, Axman

Subscribed and sworn to before me this

{

day of June, 1901

I, , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of .

, Flagman

Subscribed and sworn to before me this

{

day of June, 1901

SUBDIVISION OF T. 23 S., R. 2 E.

Survey commenced June 18, 1907, and executed with the instrument described in book "A" of this survey.

At the cor. of secs. 35 and 36 on S.bdy.of Tp., established by myself and heretofore described, latitude $38^{\circ} 51' 16''$ N.; longitude $111^{\circ} 41' 35''$ W. I set off $23^{\circ} 25'$ N.on decl.arc; $38^{\circ} 51'$ on lat.arc; and at 4 h. 31 m.p.m.l.m.t., determine with the solar a meridian and mark a point thereof by a cross on a stone firmly set in the ground 5 chs.N.of the corner.

June 18, 1907.

June 19: At 1 h.44 m.a.m.l.m.t.I observe Polaris at eastern elongation in accordance with Manual of Instructions, and mark the meridian thus determined by a tack in a wooden peg set in the ground 5 chs.N. of my station.

At 8 h.0 m.a.m.l.m.t.I lay off the azimuth of Polaris $1^{\circ} 32'$ to the west and mark the meridian thus determined by cutting a small groove in the stone set last evening on which the meridian falls 0.3 ins.west of the mark determined by the solar.

At 8 h.31 m.a.m.l.m.t.I set off $23^{\circ} 26'$ N. on the decl. arc; $38^{\circ} 51'$ N.on the lat.arc, and mark the meridian thus determined by the solar by a cross on the stone already set 5 chs.N.of my station; this mark falls 0.5 ins.west of the meridian established by the Polaris observation.

The solar apparatus by p.m.and a.m.observations defines positions for meridians about $0' 16''$ east and $0' 26''$ west of the meridian established by the Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8 h.31 m.

SUBDIVISION OF T. 22 S., R. 2 E.

Chains. a.m. is N. $16^{\circ} 38' W.$; the angle thus determined gives the mag.decl. $16^{\circ} 38' E.$

From the cor.already described, I run

N. $0^{\circ} 01' W.$ bet.secs.35 and 36,

Through oak brush,

17.50 Ridge spur, 100 ft.high, bears N. $70^{\circ} W.$ and S. $70^{\circ} E.$

31.50 Gully, 10 ft.deep, drains easterly.

40.00 Set a sandstone 15x9x4 ins., 10 ins.in the ground, for $\frac{1}{2}$ sec.cor., marked $\frac{1}{4}$ on W.face; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor. Pits impractical.

47.00 Spur, 30 ft.high, bears E. and W.

58.70 Gully, 15 ft.deep, drains east.

78.50 Leave oak brush; enter pine and cedar timber.

80.00 Set a sandstone 16x9x6 ins., 11 ins.in the ground for cor.of secs.25,26,35, and 36. marked with 1 notch on S. and 1 notch on E.edges; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor.

A cedar, 14 ins.diam.bears S. $7^{\circ} 30' E.$ 46 lks.dist.

marked T 22 S R 2 E S 36 B T

A cedar 17 ins.diam.bears N. $81^{\circ} E.$ 22 lks.dist.

marked T 22 S R 2 E S 25 B T

A pinon pine, 6 ins.diam., bears S. $36^{\circ} W.$ 21 lks.

dist.. marked T 22 S R 2 E S 35 B T

A pinon pine, 6 ins.diam.bears N. $34^{\circ} W.$ 68 lks.

dist.. marked T 22 S R 2 E S 26 B T

Land, mountainous.

Soil, loam; 1st rate.

Timber, pine and cedar 1.50 chs.

Dense oak brush 78.50 chs.

Mountainous land 80.00 chs.

S. $69^{\circ} 40' E.$ on a random line betsecs.25 and 36,

47.00 Set temp. + sec.cor.

SUBDIVISION OF T. 22 S., R. 2 E.

Chains. 57.91	Impossible to proceed farther on account of steep de- scent over ledges into Cottonwood Gulch. Therefore I offset S.0°20'W. 4.00 chs.; thence continue S.89° 40' E.
80.00	Fall 9 lks.N.of the witness cor.to cor.of secs.25,30,31 and 36 on E.bdy.of Tp., heretofore described. Thence I run on true offset line; ascending in dense oak brush, N.89° 36'W. to 22.09 chs.; thence N.0° 24' E. 4.00 chs.to true line.
22:09	Top of abrupt ascent; enter pine and cedar timber. As the cor.of secs.25,30,31, and 36 falls in an inaccos- sible place, I set a sandstone 16x14x6 ins., 11 ins. in the ground for witness cor.to cor.of secs.25,30,31 and 36, marked with 5 notches on N. and 1 notch on S. edge and W C on W.face; and raise a mound of stones 2 ft.base, $1\frac{1}{2}$ ft.high E.of cor. A cedar 4 ins.diam.bears N.84° 45'W. 84 lks.dist. marked T 22 S R 2 E S 25 W C B T
	A mahogany 14 ins.diam.bears S.19° 27'W. 44 lks. dist., marked T 22 S R 2 E S 36 W C B T
	Ascend gradually.
22.89	Top of ridge, 300 ft.high bears N. and S.: descend.
27.59	Top of ledge; 80ft.high.
29.09	Foot of ledge; leave pines and cedars.
30.09	Rapid descent.
40.00	Set a sandstone 20x7x4 ins., 15 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; and raise a mound of stones 2 ft.base, $1\frac{1}{2}$ ft.high N.of cor.
51.09	Ascend gradually over bench land.
64.60	Brown's Hole Creek, 10 lks.wide, 2 ft.deep, drs.N.Asc.
68.00	Leave dense oak brush; enter dense cedars and pines.
70.00	Top of steep ascent from Brown's Hole Canon.
78.45	Gulch, 60 ft.deep, drains SE.
80.00	The cor.of secs.25,26,25 and 36. Land, mountainous.

SECTION OF T. 22 S., R. 2 E.

Bottom, soft, loam; lot pale.

Piney, pine, cedar, and mahogany on 19.00 cms.

Dense undergrowth 61.00 cms.

Waterfall 1' and 80.00 cms.

N.E. of T. bet. nos. 13 and 26.

Through dense cedar and pine.

1.00 Gulch, drains southwesterly.

25.00 Spur ridge, 50 ft. high, bears N.50° E. and N.50° W.

Leave timber; descend in dense brush.

Get a sandstone 20x9x5 ins., 16 ins. in the ground for corner, marked 4 on W. face; and raise a round of stones 2 ft. base, 1 1/2 ft. high E. of cor. Pits impracticable.

45.00 Leave brush; enter dense cedar and pines.

Gulch, 10 ft. deep, drains S.55° E.

Spur ridge, 50 ft. high, bears N.80° E. and N.80° W.

Descend rapidly in cedar and pines.

Get a sandstone 15x10x4 ins., 10 ins. in the ground for corner, bears 23, 24, 25, and 26, marked with 2 notches on S. and 1 notch on N. edges; and raise a round of stones 2 ft. base, 1 1/4 ft. high E. of cor. Pits impracticable.

A pinon pine, 7 ins. diam., bears N.80° 34'E. 82 lms.

dist., marked T 22 S 2 W 2 E 2 24 R 7

A pinon pine, 10 ins. diam., bears S.55° 18'E. 100 lms.

dist., marked T 22 S 2 W 2 E 2 25 R 7

A pinon pine, 9 ins. diam., bears S.72° 34'W. 118 lms.

dist., marked T 22 S 2 W 2 E 2 26 R 7

A pinon pine, 6 ins. diam., bears N.24° 04'W. 119 lms.

dist., marked T 22 S 2 W 2 E 2 27 R 7

Leave, topsoil.

Bottom, loam; lot pale.

Piney, pine and cedar 41.00 cms.

Dense undergrowth 14.00 cms.

SUBDIVISION OF T. 22 S., R. 2 E.

Chains. Land covered with heavy timber or dense undergrowth
80.00 chs.

June 19: At this cor. I set off $23^{\circ} 26'$ N.on decl.arc;
and at 0 h.01 m.p.m.l.m.t.observe the sun on the me-
ridian; the resulting lat.is $38^{\circ} 53'$ N.

- S.89° 36'E.on a random line betsecs.24 and 25,
40.00 Set temp. $\frac{1}{4}$ sec.cor.
80.20 Intersect E. Bdy. of Tp.7 lks.N.of the cor.of secs.19,24
25, and 30, heretofore described. Thence I run
N.89° 33' W.on true line betsecs.24 and 25,
Descend gradually through dense oak brush.
27.20 Top of spur ridge, 400 ft.above Brown's Hole, bears N.
45° W. and S.50° E.
Enter cedars and pine.
Descend abruptly in timber and dense brush.
30.20 Gradual descent.
30.70 Top of cliff 100 ft.high,bears N. and S.
Leave brush.
.31.70 Foot of cliff.
40.10 Set a sandstone 15x7x5 ins., 10 ins.in the ground for
 $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; and raise a mound of
stones 2 ft.base, $1\frac{1}{2}$ ft.high N.of cor.
A cedar, 7 ins.diam.bears N.71° W. 18 lks.dist.
marked $\frac{1}{4}$ S 24 B T
A cedar, 8 ins.diam.bears S.9° W. 7 lks.dist.
marked $\frac{1}{4}$ S 25 B T
56.70 Leave timber; steep descent.
59.20 Enter sagebrush bench land.
65.20 Leave sagebrush.
65.50 Brown's Hole Creek, 10 lks.wide, 2 ft.deep, drains N.
75. 20 Enter cedars and pine; ascend gradually.
80.20 The cor.of secs .23,24,2 5, and 26.
Land, mountainous.

SUBDIVISION OF T. 22 S., R. 2 E.

Chains. Soil, loam; 1st rate.

Timber, pine and cedar, 34.50 chs.

Undergrowth oak and sagebrush.

Mountainous land 80.20 chs.

N.0°01'W.betsecs.23 and 24,

Descend rapidly in dense brush and over boulders and ledges.

13.50 Brown's Hole Creek, 10 lks.wide, 2 ft.deep, drains N. 70° W.

Leave brush; ascend in cedars and pine.

23.50 Gulch drains S.20° W.

Rapid ascent.

40.00 Set a sandstone 20x9x4 ins. on rock floor in mound of stone for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor. Pits impracticable.

A pinon pine, 13 ins.diam.bears N.61° E. 38 lks. dist., marked $\frac{1}{4}$ S 24 B T

A pinon pine, 14 ins.diam.bears S.66° W. 40 lks. dist., marked $\frac{1}{4}$ S 23 B T

61.00 Leave timber; ascend in dense oak brush.

64.90 Ridge, 300 ft.high, bears easterly and westerly Descend in oak brush.

80.00 Set a sandstone 20x5x6 ins., 15 ins.in the ground, for cor.of secs.13,14,23, and 24, marked with 3 notches on S. and 1 notch on E.edges; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor.Pits impracticable.

A pinon pine, 10 ins.diam.bears N.40° E. 29 lks. dist., marked T 22 S R 2 E S 13 B T

No other bearing trees within limits.

Land, broken.

Soil, loam 1st and 2d rate; rocky, 3d rate.

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SUBDIVISION OF T. 22 S., R. 2 E.

Chains.

Timber pine and cedar, 47.50 chs.

Undergrowth oakbrush 32.50 chs.

Mountainous land 80.00 chs.

June 19, 1907.

- June 20: At 8 h. 31 m.a.m.l.m.t.I set off $23^{\circ} 27' N.$ on the decl.arc; $38^{\circ} 54' N.$ on lat.arc; and determine a meridian with the solar at the cor.of secs.13,14,23, and 24. Thence I run
 $S.89^{\circ} 33'E.$ on a random line bet.secs.13 and 24,
40.00 Set temp. $\frac{1}{4}$ sec.cor.
- 80.12 Intersect E.bdy.of.Tp. 19 lks.S.of cor.of secs.13,18, 19, and 24, heretofore described.
Thence I run
 $N.89^{\circ} 41' W.$ on true line bet.secs.13 and 24,
Ascend in dense oak brush.
- 15.12 Spur, 100 ft.high, bears $N.20^{\circ} W.$ and $S.20^{\circ} E.$
Descend in scattering mahogany, cedars, and pines.
- 22.12 Ravine 100 ft.deep, drains north.
- 39.32 Top of spur ridge, 250 ft.above Bear Gulch, bears $N.20^{\circ} W.$ and $S.20^{\circ} E.$
- 40.06 Set a sandstone 24x7x4 ins., 18 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high N.of cor. Pits impracticable.
A pinon pine 6 ins.diam.bears $N.29^{\circ} 56' W.$ 67 lks.
dist., marked $\frac{1}{4}$ S 13 B T
- A cedar, 6 ins.diam., bears $N.9^{\circ} 49'E.$ 75 lks.
dist., marked $\frac{1}{4}$ S 13 B T
- Descend in dense oak brush and scattering cedars.
- 73.29 Bear gulch, drains $N.45^{\circ} W.$
- 80.12 The cor.of secs.13,14,23, and 24.
Land, mountainous.
Soil, loam, 1st rate.

SUBDIVISION OF T. 23 S., R. 2 E.

Chains. Timber, scattering mahogany, cedars and pines 58.17 chs.
 Dense oak brush 55.27 chs.
 Mountainous land 80.12 chs.

- N.0° 1'W.bet.secs.13 and 14,
 Descend in dense oak brush.
- 9.00 Bear Gulch, drains N.45° W.
 Ascend in scattering pines and cedars.
- 28.60 Ridge bears N.60° W. and S.80° E.
 Descend in pine and cedars.
- 40.00 Set a sandstone 20x7x6 ins., 15 ins.in the ground for
 $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; and raise a mound of
 stone 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor.Pits impractical-
 cable.
 A cedar, 14 ins.diam.bears S.21° 15'W. 34 lks.dist.
 marked $\frac{1}{4}$ S 14 B T
 A pinon pine, 12 ins.diam.bears S.65° E. 5 lks.dist.
 marked $\frac{1}{4}$ S 13 B T
- 40.30 Abrupt. descent; leave timber.
- 48.00 Foot of mountain; leave brush.
- 48.38 R.G.W.R.R.track bears N.28° E. and S.28° W.
- 53.50 Salina Creek 90 lks.wide, 2 ft.deep, drains S.30° W.
- 55.46 Wagon road to Castle Valley bears N.30° E. and S.30° W.
 Ascend.
- 69.53 Enter dense cedars and pines.
- 80.00 Set a sandstone 18x6x7 ins., 12 ins.in the ground for
 cor.of secs.11,12,13, and 14, marked with 4 notches
 on S. and 1 notch on E.edges; and raise a mound of
 stone 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor.Pits impractical-
 cable.
 A pine 8 ins.diam.bears N.76° W. 7 lks.dist.
 marked T 22 S R 2 E S 11 B T
 A pine 15 ins.diam.bears S.3° 30'E. 29 lks.dist.
 marked T 22 S R 2 E S 13 B T

SUBDIVISION OF T. 22 S., R. 2 E.

Chains.	A pine 14 ins.diam.bears N. 77° 45'E. 25 lks.dist. marked T 22 S R 2 E S 12 B T
	A pine, 8 ins.diam.bears S. 56° 45'W. 30 lks.dist. marked T 22 S R 2 E S 14 B T
Land, mountainous..	
Soil, loam; 1st rate.	
Timber, pine and cedars 41.77 chs.	
Undergrowth oak brush, 48.00 chs.	
Mountainous land 80.00 chs..	
June 20, 1907: At this cor.I set off $23^{\circ} 27'$ N.on decl. arc; and at 0 h.01 m.p.m.l.m.t.observe the sun on the meridian; the resulting lat.is $38^{\circ} 55'$.	
40.00	S. 89° 41'E.on a random line bet.secs.12 and 13, Set temp. $\frac{1}{4}$ sec.cor.
79.70	Intersect E. Bdy.of Tp 26 lks.N.of cor.of secs.7,12,13 and 18, heretofore described.
	Thence I run
	N. 89° 30'W.on true line bet.secs.12 and 13,
	Descend in dense brush and scattering pine and cedar.
9.00	Gulch 50 ft.deep, drains S. 50° W.
25.00	Steep descent; leave timber.
39.85	Point for $\frac{1}{4}$ sec.cor.falls on stationary ledge, on which I cut a cross (X) at the corner point for $\frac{1}{4}$ sec.cor. marked $\frac{1}{4}$ on S.face.
	Gradual descent.
42.75	R.G.W.R.R.track bears N. 65° W. and S. 65° E.
45.72	Wagon road to Castle Valley bears N. 45° W. and S. 45° E.
48.23	Salina Creek, 50 lks.wide, 2 ft.deep, drains N. 45° W.
	Steep ascent in pines and cedars.
54.70	Foot of bluff 300 ft.high.
56.00	Top of bluff; steep descent. Leave timber.

SUBDIVISION OF T. 22 S., R. 2 E.

Chains.	
62.40	Foot of bluff.
64.50	R.G. W.R.R. track bears N.66° E. and S.66° W.
72.10	Salina Creek, 60 lks.wide, 2 ft.deep, drains south.
74.70	Wagon road to Castle Valley bears S. and N.20° E. Ascend in pines and cedars..
77.20	Foot of ledge, 20 ft.high, bears N. & S.
77.70	Top of ledge.
79.70	The cor.of secs.11,12,13, and 14. Land, mountainous. Soil, stony; 2d rate; bluffs 3d rate. Timber, pine and cedar 37.73 chs. Undergrowth oak brush 9 chs. Mountainous land 79.70 chs.
	H.0° 1'W.betsecs.11 and 12,
	Ascend in dense cedars and pine.
18.50	Top of ridge, 700 ft.above Salina Canon, bears S.50° W. and N.50° E. Steep descent.
20.50	Leave timber; enter dense oak brush.
25.00	Gradual descent.
28.50	Leave oak brush; enter sagebrush flat.
35.00	Rapid descent into Water Hollow; through dense brush.
39.90	Water Hollow Creek, 3 lks.wide, 5 ins.deep, drains W.
40.00	Set a sandstone 18x10x7 ins.. 12 ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; and raise a mound of stone, 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor.Pits impracti- cable.
	Ascend in dense brush.
43.00	Foot of precipice, 60 ft.high; leave brush.
43.50	Top of precipice.
	Ascend in dense cedars and pines.
80.00	Set a sandstone 20x12x10 ins., 15 ins.in the ground for cor.of secs.1,2,11, and 12, marked with 5 notches on

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SUBDIVISION OF T. 22 S., R. 2 E.

Chains. S. and 1 notch on E.edges; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W.of cor.Pits impracticable.
 A pine, 6 ins.diam.bears S. 5° 15'W. 26 lks.dist.
 marked T 22 S R 2 E S 11 B T
 A cedar, 20 ins.diam.bears S. 76° 45'E. 53 lks.dist.
 marked T 22 S R 2 E S 12 B T
 A pine 5 ins.diam.bears N. 15° E. 19 lks.dist.
 marked T 22 S R 2 E S 1 B T
 A cedar, 6 ins.diam.bears N. 86° W. 4 lks.dist.
 marked T 22 S R 2 E S 2 B T
 Land, mountainous.
 Soil, loam; 1st rate; rocky 2d rate.
 Timber, cedar and pines 57.00 chs.
 Undergrowth oak brush and sagebrush.
 Mountainous land 80.00 chs.

June 20, 1907.

June 21: At 9 h. 31 m.a.m.l.m.t.I set off $23^{\circ} 27'$ N.on decl.arc; $38^{\circ} 56'$ N.on lat.arc; and determine a meridian with the solar at the cor.of secs.1,2,11, and 12. Thence I run

S. 89° 30' E. on a random line betsecs.1 and 12,

40.00 Set temp. $\frac{1}{4}$ sec.cor.

79.54 Intersect E. Bdy. of Tp, 14 lks.S.of cor.of secs.1,6,7 and 12. Thence I run

N. 89° 36' W.on a true line betsecs.1 and 12,

Descend in cedars and pines.

5.54 Leave timber; enter sagebrush bottom.

7.94 Creek 2 lks.wide, 3 ins.deep, drains S. 20° E.

9.54 Ascend gradually in dense brush, pines and cedar.

14.54 Top of ridge, 75 ft.high bears N. and S.

28.54 Spring branch 2 lks.wide, 3 ins.deep, drains S. 20° W.

29.77 Ascend in dense cedars and pines.

SUBDIVISION OF T. 22 S., R. 2 E.

Chains. 39.77	Foot of cliff 25 ft. high. Set a sandstone 18x11x6 ins., 12 ins. in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high N.of cor.Pits impracti- cable. A cedar, 15 ins.diam.bears N. $66^{\circ} 54' E.$ 46 lks.dist. marked $\frac{1}{4} S 1 B T$ A pine, 15 ins.diam.bears S. $35^{\circ} 36' E.$ 45 lks.dist. marked $\frac{1}{4} S 12 B T$
40.04	Top of cliff. Ascend rapidly through cedars and pines.
48.04	Top of ridge, 500 ft.above Water Hollow, bears N. and S. Descend in dense cedars and pines.
73.54	Gulch 150 ft.deep, drains south. Ascend in dense cedars and pines, over rocky ledges.
79.54	The cor.of secs.1,2,11, and 12. Land, mountainous. Soil, loam; 1st rate. Timber, pine and cedars 75.54 chs. Undergrowth, oak brush. Mountainous land 79.54 chs.

June 21, 1907: At this cor.I set off $23^{\circ} 27' N.$ on decl. arc; and at 0 h. 01 m.p.m.l.m.t.observe the sun on the meridian; the resulting lat.is $38^{\circ} 56'$.

40.00	N. $0^{\circ} 1' W.$ on a random line betsecs.1 and 2 Set temp. $\frac{1}{4}$ sec.cor.
68.55	Intersect north bdy.of Tp.88 lks.E.of cor.of secs.1,2, 35 and 36, heretofore described.
	Thence I run S. $0^{\circ} 44' E.$ on a true line betsecs.1 and 2, Descend abruptly in dense brush.

SUBDIVISION OF T. 22 S., R. 2 E.

Chains
 8.55 More gradual descent; gulch drains south 5 chs.E.of line.
 22.55 Same gulch, drains south 1 ch.E.of line.
 28.55 Set a sandstone 18x10x6 ins., 12 ins.in the ground, for
 $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; and raise a mound
 of stone 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor.Pits imprac-
 ticable.
 This cor.stands in dense oak brush.
 Descend in oak brush.
 35.55 Leave brush; enter pines and cedar.
 68.55 The cor.of secs.1,2,11, and 12.
 Land, broken.
 Soil, loam; 1st rate.
 Timber, cedar and pine 33.00 chs.
 Undergrowth oak brush 35. 55 chs.
 Land covered with heavy timber or dense undergrowth
 68.55 chs.

June 21, 1907.

June 22: At 8 h. 32 m.a.m.l.m.t.I set off $23^{\circ} 28' N.$
 on decl.arc; $38^{\circ} 51'$ on lat.arc; and determine a me-
 ridian with the solar at the cor.of secs.34 and 35
 on S.bdy.of Tp., heretofore described.

Thence I run

$N.0^{\circ} 1' W.$ betsecs.34 and 35,
 Ascend gradually in dense brush.

12.00 Top of ridge, 100 ft.high bears $N.40^{\circ} E.$ and $S.40^{\circ} W.$
 Leave brush; descend through dense aspen timber.
 25.00 Ascend.
 40.00 Set a sandstone 16x14x7 ins.. 11 ins.in the ground for
 $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; and raise a mound of
 stone 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor.Pits impracti-
 cable.

An aspen, 7 ins.diam., bears $N.83^{\circ} E.$ 12 lks.

SUBDIVISION OF T. 22 S., R. 2 E.

- Chains. dist., marked $\frac{1}{4}$ S 36 B T
 An aspen, 6 ins.diam., bears west 37 lks.dist.
 marked $\frac{1}{4}$ S 35 B T
- 46.00 Leave timber; enter dense oak brush.
- 20.00 Set a sandstone 18x12x7 ins.. 12 ins.in the ground for cor.of secs.26,27,34, and 35, marked with 1 notch on S. and 2 notches on E.edge; and raise a mound of stone, 2 ft.base, 1 $\frac{1}{2}$ ft.high W.of cor.Pits impractical.
 A maple 6 ins.diam.bears S.3° 06'E. 43 lks.dist.
 marked T 22 S R 2 E S 35 B T
 A maple 6 ins.diam.bears N.11° 57'E. 48 lks.dist.
 marked T 22 S R 2 E S 26 B T
- No other bearing trees within limits.
 Land, mountainous.
 Soil, loam; 1st rate.
 Timber, aspen and maple.
 Dense undergrowth oak brush 46.00 chs.
 Mountainous land 80.00 chs.

- 40.00 S.89° 50'E.on a random line bet.secs.26 and 35,
 Set temp. $\frac{1}{4}$ sec.cor.
 80.08 Intersect N. and S.line 40 lks.N.of cor.of secs.25,26,
 35, and 36. Thence I run
 N.89° 33'W.on a true line bet.secs.26 and 35,
 Ascend in cedar and pine.
 38.08 Leave timber; enter dense brush.
 34.08 Leave brush.
 37.00 Ridge, 500 ft.high, bears N.15° E. and S.15° W.
 40.04 Set a sandstone 18x12x5 ins., 12 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; and raise a mound of stones 2 ft.base, 1 $\frac{1}{2}$ ft.high W.of cor.Pits impractical.
 Descend abruptly in dense oak brush.

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SUBDIVISION OF T. 22 S., R. 2 E.

Chains.	
65.04	Gulch, 500 ft. deep, drains north. Ascend in dense oak brush.
80.08	The cor. of secs. 26, 27, 34, and 35. Land, mountainous. Soil, loam; 1st rate. Timber, cedars and pine 30.08 chs. Dense oak brush 44.04 chs. Mountainous land 80.08 chs. June 22: At this cor. I set off $23^{\circ} 27'$ N. on decl. arc; and at 0 h. 02 m.p.m.l.m.t. observe the sun on the me- ridian; the resulting lat. is $38^{\circ} 52'$.

	N. $0^{\circ}1'$ W. bet. secs. 26 and 27,
	Descend gradually in dense brush.
30.00	More rapid descent.
38.00	Steep descent.
40.00	Set a sandstone 18x10x5 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Pits impracti- cable.
	Hollow E. of cor. drains E.
75.00	Rapid descent over sandstone ledges.
80.00	Set a sandstone 20x8x8 ins., 15 ins. in the ground for cor. of secs. 22, 23, 26, and 27, marked with 2 notches on S. and 2 notches on E. edges; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Pits impracti- cable.
	A cedar, 18 ins. diam. bears N. $47^{\circ} 15'$ W. 2.39 chs. dist., marked T 22 S R 2 E S 22 B T
	No other bearing trees within limits.
	Land, rolling.
	Soil, loam; 1st rate.

SUBDIVISION OF T. 22 S., R. 2 E.

Chains. No timber.

Undergrowth oak brush.

Land covered with dense undergrowth 80.00 chs.

June 22, 1907.

June 23: At 8 h. 32 m.a.m.l.m.t. I set off $23^{\circ} 27' N.$ on decl.arc; $38^{\circ} 53'$ on lat.arc; and determine a meridian with the solar at the cor.of secs.22,23,26, and 27. Thence I run

$S.89^{\circ} 33'E.$ on a random line betsecs.23 and 26,

40.00 Set temp. $\frac{1}{4}$ sec.cor.

80.10 Intersect N. and S .line 7 lks.S.of cor.of secs.23,24, 25 and 26. Thence I run

$N.89^{\circ} 36'W.$ on a true line betsecs.23 and 26,
Ascend in dense cedars and pine.

6.89 Spur, 400 ft.above Brown's Hole, bears $N.15^{\circ} E.$ and $S.15^{\circ} W.$ Descend in dense brush. Leave timber.

10.00 Gulch, 20 ft.deep, drains $N.15^{\circ} E.$

Ascend in brush.

35.00 Spur, 150 ft.high, bears $N.15^{\circ} E.$ and $S.15^{\circ} W.$
Descend in dense brush.

40.05 Set a sandstone 22x6x4 ins., 16 ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.nigh N.of cor.Pits impracticable.

72.50 Gulch, 150 ft.deep, drains N.

80.10 The cor.of secs.22,23,26, and 27.

Land, mountainous.

Soil, loam; 1st rate.

Timber, pine and cedars, 6.89 chs.

Dense undergrowth 73.21 chs.

Mountainous land 80.10 chs.

SUBDIVISION OF T. 22 S., R. 2 E.

Chains.	N.0° 1' W. bet. secs. 22 and 23, Descend in dense brush.
3.00	Leave brush; enter dense cedars and pine.
11.30	Gulch, 30 ft. deep, drains E. Ascend abruptly in cedars and pine.
40.00	Set a sandstone 14x8x8 ins. on rocky ledge in mound of stone, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Pits impracticable. A cedar, 24 ins. diam. bears N.65° E. 40 lks. dist. marked $\frac{1}{4}$ S 23 B T
	A cedar 8 ins. diam. bears N.22° W. 52 lks. dist. marked $\frac{1}{4}$ S 22 B T This cor. stands on steep west slope of gulch, 500 ft. above same.
50.33	Top of precipice 100 ft. high; leave timber.
51.50	Bottom of precipice. Descend rapidly in dense cedar and pinon pines.
67.00	Leave dense timber.
80.00	Set a sandstone 16x10x8 ins., 11 ins. in the ground, for cor. of secs. 14, 15, 22, and 23, marked with 3 notches on S. and 2 notches on E. edge; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Pits impracti- cable. A cedar 12 ins. diam., bears S.74° W. 1.07 chs. dist. marked T 22 S. R 2 E S 22 B T
	A pinon pine, 8 ins. diam. bears N.14° W. 50 lks. dist. marked T 22 S. R 2 E S 15 B T No other bearing trees within limits. Land, mountainous. Soil, loam, 1st rate; stony, 2d rate. Timber cedars and pinon pine 62.83 chs. Dense brush 3.00 chs. Mountainous land 80.00 chs.

SUBDIVISION OF T. 22 S., R. 2 E.

Chains. June 23: At this cor. I set off $23^{\circ} 27'$ N.on decl.arc; and at 0 h.02 m.p.m.l.m.t observe the sun on the meridian; the resulting lat.is $38^{\circ} 54'N$.

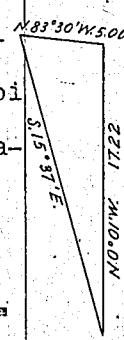
- S. $89^{\circ} 36'E$.on a random line bet.secs.14 and 23,
40.00 Set temp. $\frac{1}{4}$ sec.cor.
80.30 Intersect N. and S.line 12 lks.S.of cor.of secs.13,14,
23 and 24.
Thence I run
N. $89^{\circ} 41'W$.on a true line bet.secs.14 and 23,
Descend:
0.90 Gulch, drains north, 20 ft.deep.
Ascend in dense brush.
16.66 Leave brush; enter cedars and pine.
19.46 Ridge, 300 ft.above cor.of secs.13,14,23, and 24, bears
N. $13^{\circ} W$. and S. $13^{\circ} E$.
Descend.
29.70 Gulch, 10 ft.deep, drains S. $20^{\circ} W$.
32.58 Top of rocky ledge, 60 ft.high, course N. $75^{\circ} W$.
32.99 Foot of ledge.
40.15 Set a sandstone 20x10x8 ins., 15 ins.in the ground,
for $\frac{1}{4}$ sec.cor., marked $\frac{1}{2}$ on N.face; and raise a mound
of stone, 2 ft.base, $1\frac{1}{2}$ ft.high N.of cor.Pits im-
practicable.
A cedar, 6 ins.diam.bears N. $20^{\circ} 56'W$. 1.07 chs.
dist., marked $\frac{1}{2}$ S 14 B T
A cedar, 9 ins.diam.bears N. $36^{\circ} 21'W$. 1.20 chs.
dist., marked $\frac{1}{2}$ S 14 B T
No other bearing trees within limits.
Leave timber; descend gradually along N.side of sage-
brush flat, extending south 12.00 chs.
54.75 Enter cedars and pines.
More rapid descent.

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SUBDIVISION OF T. 22 S., R. 2 E.

Chains. 56.50	Top of ledge, 50 ft. high, course N.45° W. and S.45° E.
71.00	Leave timber.
75.30	'Brown's Hole' Gulch, 100 ft. deep, drains N.10° W.
80.30	The cor. of secs.14,15,22, and 23. Land, mountainous and level. Soil, loam; 1st rate. Timber, pine and cedar 39.74 chs. Undergrowth sagebrush. Mountainous land, or land covered with dense under-growth 80.30 chs.

	N.0° 1' W.betsecs.14 and 15, Descend in scattering cedars and pine.
12.00	Brown's Hole Gulch, 100 ft. deep, drains N.40° W. Ascend gradually in cedars and pine.
25.50	Leave timber; more rapid ascent.
33.47	Ridge, 400 ft. high, bears N.46° W. and S.46° E. Steep descent in scattering cedars.
40.00	Set a sandstone 14x8x6 ins., 9 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; and raise a mound of stones 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor.Pits impracti-cable. A cedar, 12 ins.diam.bears N.82° E. 44 lks.dist. marked $\frac{1}{4}$ S 14 B T
	A cedar, 24 ins.diam.bears S.43° 15'W. 30 lks. dist., marked $\frac{1}{4}$ S 15 B T
40.50	Top of precipice which I cannot chain. It is also im-practicable to triangulate from this point. I there-fore set a flag at the $\frac{1}{4}$ sec.cor. and establish a poi-point on line in Salina Canon; from this point I mea-sure a base N. 83° 30'W. 5.00chs. to a point from which the flag on $\frac{1}{4}$ sec.cor.bears S.15° 37'E. Therefore the dist.is $5 \times \sin 67^\circ 53' \div \sin 15^\circ 36'$



SUBDIVISION OF T. 22 S., R. 2 E.

Chains. 17.22 chs., making the whole distance from sec.cor.
 $40 + 17.22 = 57.22$ chs.

From this point I run S. $0^{\circ} 1'E.$ 9 chs., which subtracted from 57.22 makes,

48.22 Foot of steep ridge; enter Salina Canon; leave timber.

51.00 R.G.W. R.R. track bears N. $69^{\circ} 09'W.$ and S. $69^{\circ} 09'E.$

52.50 Salina Creek 90 lks.wi de, 2 ft.deep, drains N. $70^{\circ} W.$

54.00 Wagon road to Castle Valley bears N. $69^{\circ} W.$ and S. $69^{\circ} E.$

58.00 Steep ascent over rocks.

65.00 Enter scattering cedars and pine.

80.00 Set a sandstone 15x6x6 ins., 10 ins.in the ground for cor.of secs.10,11,14, and 15, marked with 4 notches on S. and 2 notches on E.edges; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor.Pits impracticable.

A pine 5 ins.diam.bears N. $86^{\circ} 15'E.$ 29 lks.dist.
 marked T 22 S R 2 E S 11 B T

A pine, 10 ins.diam.bears N. $43^{\circ} 45'W.$ 1.16 chs.
 dist., marked T 22 S R 2 E S 10 B T

A pine, 11 ins.diam.bears S. $44^{\circ} 15'W.$ 58 lks.dist.
 marked T 22 S R 2 E S 15 B T

A cedar 18 ins.diam.bears S. $43^{\circ} 45'E.$ 58 lks.dist.
 marked T 22 S R 2 E S 14 B T

Land, mountainous.

Soil, loam; 2 d rate.; rocky 3d rate.

Timber, pine and cedar 55.25 chs.

Mountainous land 80.00 chs.

June 23, 1907.

June 24: At 8 h. 32 m.a.m.l.m.t.I set off $23^{\circ} 27'N.$ on the decl.arc; $38^{\circ} 55'$ on lat.arc; and determine a meridian with the solar at the cor.of secs.10,11,14, and 15. Thence I run

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SUBDIVISION OF T. 22 S., R. 2 E.

Chains.	S.89° 41'E.on random line bet.secs.11 and 14,
40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.22	Intersect N. and S.line 26 lks.N.of cor.of secs.11,12, 13 and 14. Thence I run.
	N.89° 30'W. on a true line bet.secs.11 and 14, Ascending through cedar and pine.
13.00	Steep ascent.
15.00	Top of ridge, 200 ft. high,bears N.40° E. and S.10° W. Descend.
28.00	Leave timber.
29.00	Water Hollow Creek, 10 lks.wide, 4 ins.deep, drains S. 25° W.
40.11	Set a sandstone 16x9x6 ins. in mound of stone for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$.on.N.face; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high N.of cor.Pits impracti- cable.
40.50	Steep ascent.
41.00	Foot of bluff, 200 ft.high, bears N.40° E. and S.40° W.
51.00	Top of bluff; enter pine and cedars.
60.00	Steep descent in dense cedars and pine.
80.22	The cor.of secs.10,11,14, and 15. Land, mountainous. Soil, loam;1st rate; rocky, 3d rate. Timber, pine and cedar 57.22 chs. Mountainous land 80.22 chs.

	N.0° 1'W.bet.secs.10 and 11, Ascend over rocky slope in dense cedars and pines.
9.36	Gulch, 20 ft.deep, 1 ch.west of line, drains S.
24.40	Same gulch,10 ft.deep, 2 chs.west of line, drains S.
31.50	Same gulch, 5 ft.deep, drains S.45° W.
40.00	Set a sandstone 14x8x6 ins., 10 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor.Pits impracti-

SUBDIVISION OF T. 22 S., R. 2 E.

	Chains.	cable.
		A pine 13 ins.diam.bears S.35° 15'E. 4 lks.dist. marked $\frac{1}{4}$ S 11 B T
		A pine, 13 ins.diam.bears S.40° 45'W. 17 lks.dist. marked $\frac{1}{4}$ S 10 B T
		This cor.stands in dense cedars and pine.
41.90		Leave timber.
47.90		Top of divide bet.Alumbed and Water Hollows, 800 ft. above Salina Canon, bears S.75° W. and N.75° E.
		Descend rapidly in dense brush.
57.40		Shallow ravine drains W.; heads 4 chs.E.of line.
70.00		Gradual descent through cedar and pine; leave brush.
80.00		Set a sandstone 18x8x8 ins. to bedrock in mound of stone for cor.of secs.2,3,10, and 11, marked with 5 notches on S. and 2 notches on E.edge; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft.high W.of cor.Pits impracti- cable.
		A pine, 18 ins.diam.bears N.42° 15'W. 62 lks.dist. marked T 22 S R 2 E S 3 B T
		A cedar, 8 ins.diam.bears S.74° 45'E. 21 lks.dist. marked T 22 S R 2 E S 11 B T
		A pine 10 ins.diam.bears S.37 ° 15'W. 58 lks.dist. marked T 22 S R 2 E S 10 B T
		No other bearing trees within limits.
		Land, mountainous.
		Soil, loam; 1st rate.
		Timber, pine and cedar 51.90 chs.
		Undergrowth oakbrush.
		Mountainous land 80.00 chs.
		June 24: At this cor.I set off 23° 26'N.on decl.arc; and at 0 h. 02 m.p.m.l.m.t.observe the sun on the me- ridian; the resulting lat.is 38° 56'N.

S.89° 30'E.on a random line betsecs.2 and 11,

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SUBDIVISION OF T. 22 S., R. 2 E.

Chains.	
40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.26	Intersect N. and S.line at the cor.of secs.1,2,11, and 12. Thence I run N.89° 30'W.on a true line betsecs.2 and 11, Ascend in dense cedars and pines.
16.00	spur ridge, 150 ft.high, bears N. and S.25° E. steep descent over rocky ledges.
30.00	Gulch, 150 ft.deep, drains south. Rapid ascent in dense cedar and pine.
40.13	Set a sandstone 15x10x6 ins., 10 ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; and raise a mound of stone 2 ft.base, 1 $\frac{1}{2}$ ft.high N.of cor.Pits impracti- cable. A cedar, 5 ins.diam.bears S.61° 15'E. 36 lks.dist. marked $\frac{1}{4}$ S 11 B T A cedar, 5 ins.diam.bears N.4° 15'E. 33 lks.dist. marked $\frac{1}{4}$ S 2 B T
46.81	Leave timber, rapid ascent in dense brush.
47.43	Divide bet.Alumbed and Water Hollows, 500 ft.high, bears S.20° W. and N.30° E.
50.43	Steep descent in dense brush.
77.00	Leave brush; gradual descent in cedars and pine.
80.26	The cor.of secs.2,3,10, and 11. Land, mountainous. Soil, loam and rocky; 2d rate. Timber, pine and cedar 50.07 chs. Dense undergrowth 30.19 chs. Mountainous land 80.26 chs.
40.00	N.0°1'W.on a random line betsecs.2 and 3, Set temp. $\frac{1}{4}$ sec.cor.
67.58	Intersect N.bdy.of Tp.71 lks.E.of cor.of secs.2,3,34, and 35, heretofore described. Thence I run

SUBDIVISION OF T. 22 S., R. 2 E.

Chains.	S.0° 37'E.on a true line bet.secs.2 and 3, Descend in dense oak brush.
4.28	Alumbed Creek, 8 lks.wide, 2 ins.deep, drains S.70° W.
14.58	Gradualrascent in dense brush.
18.58	Leave brush; enter open Sagebrush flat, sloping gradually to west to Alumbed, extending 5 chs. E.& W.
27.58	Set a sandstone 15x6x6 ins., 10 ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor.Pits impracticable.
	Sagebrush mesa extends 4 chs. W. and 6 chs.E.from cor.
45.08	Leave flat; enter dense brush.
46.08	Leave brush; gradual descent in dense cedar and pine.
58.18	Shallow ravine drains S.65° W.
67.58	The cor.of secs.2,3,10, and 11. Land, rolling. Soil, loam; 1st rate. Timber, cedar and pine, 21.50 chs. Undergrowth oak and sagebrush. Mountainous land 67.58 chs.

June 24, 1907.

June 25: At 8 h. 32 m.a.m.l.m.t.I set off 23° 26'N.on the decl.arc; 38° 51'N.on lat.arc; and determine a meridian with the solar at the cor.of secs.33 and 34 on S.bdy.of Tp., heretofore described.

Thence I run

N.0°02'W.bet.secs.33 and 34,

Ascending gradually.

Enter dense aspens.

Leave same; through dense brush.

Tcp of ridge, 200 ft.high bears S.27° E. and N.27° W.

Descend through dense brush.

A sheep corral bears S.73° E. 30 chs.dist. This corral

SUBDIVISION OF T. 22 S., R. 2 E.

Chains: 0000 is 10 chs. E. of right hand fork of Maple Spring Canon.
 30.00 Descend rapidly through pines; leave brush.
 40.00 Set a sandstone 20 x 5 x 5 ins., 15 ins. in the ground,
 for 4 sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound
 of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Pits imprac-
 ticable. No. 100, 80, 81, W. 1000 ft. to N. end of sec.
 A balsam 15 ins. diam. bears N. 60° 11' W. 95 lks.
 dist. marked $\frac{1}{4}$ S. 33° B. T. 1000 ft. dist.
 No other bearing trees within limits.
 Descend in dense willows and scattered pine.
 60.00 Right hand fork of Maple Spring Canon, drains N. 20° W. 10
 00 ft. dist. No. 10 chs. E. of line. 1.0. 1.0. 1.0. 1.0. 1.0. 1.0. 1.0. 1.0. 1.0.
 70.00 Same fork; drains N. 20° W. 16 chs. E. of line.
 80.00 Set a sandstone 16 x 14 x 6 ins., 11 ins. in the ground
 for cor. of secs. 27, 28, 33, and 34, marked with 1 notch
 on S. and 3 notches on E. edge; and raise a mound of
 stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Pits impracti-
 cable. No. 100, 80, 81, W. 1000 ft. to N. end of sec.
 80, 81, W. 1000 ft. Land; mountainous. Valley soil; 1st rate; fine
 Soil, loam; 2d rate.
 90.00 Timber; dense aspen 2.50 chs.; scattering pine 40.00 chs.
 Undergrowth; willows and oak brush.
 Mountainous land 80.00 chs. 80.00 chs. 80.00 chs.
 80.00 chs. 80.00 chs. 80.00 chs.
 96.00 80.00 chs. to top 10.0. 10.0. 10.0. 10.0. 10.0. 10.0. 10.0. 10.0. 10.0. 10.0. 10.0.
 S. 89° 50' E. on a random line bet. secs. 27 and 34,
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.14 Intersect N. and S. line 47 lks. S. of cor. of secs. 26, 27,
 34 and 35. Thence 1 run down ridge. 10.0. 10.0. 10.0.
 Ques. S. 89° 50' W. on a true line bet. secs. 27 and 34, 10.0.
 Ascending in dense brush. 10.0. 10.0. 10.0. 10.0.
 11.30 Gradual ascent; leave brush. 10.0. 10.0. 10.0. 10.0.
 14.30 Top of ridge, 500 ft. high, bears N. and S. Descend.
 16.30 Enter dense oak brush. 10.0. 10.0. 10.0. 10.0.
 40.07 Set a sandstone 20 x 8 x 4 ins., 15 ins. in the ground,

SUBDIVISION OF T. 27 N., R. 2 E.

claims. For 4 sec.cor. mdc. f on N. face; and raise a mound of stone 2 ft. high, if it. high N. of cor. Pits impractical.

56.00 Gulch, 50 ft. deep, claims N. 50° W. Kacena in dense brush.

60.00 Ridge spur, 100 ft. high, bears N. 28° W. and S. 28° E.

76.00 Fork of Maple Spring Canon, 600 ft. deep, claims N.

80.14 The cor. or secs. 27, 28, 33, and 34.
line, mountainous.
Soil, loam; 2d rate.
No timber. Undergrowth oak, brush, dense on 76.14 chs.
Mountainous land 80.14 chs.
June 25: At this cor. I set off 23° 25' N. on the decl. arc;
and at 8 h 02m p.m.l.m.t., observe the sun on the meridian; the resulting lat. is 38° 52' + or - 00.07
. June 25, 1907, 00.07

June 15, 1911: At 8h. 32m. a.m., l.m.t., I set off 23° 18'
N. on the decl. arc; 38° 52' N. on 1st. arc; and determine
a meridian with the polar. at the cor. or secs. 27, 28, 33
and 34.
The south boundary of the Tp., in sec. 33 being out of
limit in alignment and measurement, I run
West on a random line bet. secs. 28, and 33.

46.00 Set temp. f sec.cor.
89.40 Intersect N. and S. line 15 1/2 ft. N. of cor. or secs. 28, 29, 32
and 33, heretofore described, 100 ft. N.
Thence I run
S. 89° 54' E. on a true line bet. secs. 28 and 33,
descend in dense brush.
35.90 Spring branch claims N. 38° W.; 1 ix. wide, 1 in. deep.
45.40 Spring branch 1 ix. wide, 1 in. deep, claims N. 40° W.
46.40 Set a limestone 12 x 8 x 6 in., 8 in. in the ground, for
f sec.cor., marked f on N. face; and raise a mound of
stone 2 ft. high, if it. high N. of cor. Pits impractical.
No trees within limits.

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SUBDIVISION OF T.22 S., R.2 E.

Chains.	This cor. stands in dense oak brush.
49.50	Leave brush; enter flat.
52.77	Leave flat; enter dense brush.
54.27	Leave brush; enter grassy spring flat.
56.87	Leave flat; enter dense choke cherries.
66.27	Enter scattering brush.
75.76	Leave brush; ascend.
77.26	Ridge, 500 ft. above Maple Spring Canon, bears N.20°W. and S.15°E.
89.40	The cor. of secs. 27, 28, 33, and 34.
No.	Land, mountainous.
	Soil, loam, 1st rate.
	No timber.
	Undergrowth oak brush and choke cherry.
89.40	Mountainous land 89.40 chs.

June 15, 1911.

82.88	June 25, 1907.
	N.0° 02'W. bet. secs. 27 and 28,
	Descend gradually in dense oak brush.
25.00	More rapid descent in dense brush.
40.00	Set a sandstone 18 x 12 x 3 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W.of cor. Pits imprac- ticable.
56.50	Maple Spring Canon, 400 ft. deep, drains N.26°W. Ascend in dense brush.
68.65	Steep descent in dense brush.
70.65	Leave brush.
78.50	Enter dense oak brush.
80.00	Set a sandstone 15 x 10 x 4 ins., 10 ins. in the ground for cor. of secs. 21, 22, 27, and 28, marked with 2 notches

SUBDIVISION OF T. 22 S., R. 2 E.

Chains. on S. end 3 notches on E. edge; and raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high N. of cor.. Pits impracticable. This cor. stands in dense oak brush; no timber. Land, broken. Soil, loam; 2d rate. No timber. Undergrowth, oak brush; dense on 72.15 chs. Mountainous land, or land covered with dense undergrowth 80.00 chs. June 25, 1907. alt. 01:00

June 26: At 8h 32m a.m.l.m.t., I set off $23^{\circ} 24' N.$ on decl.arc; $38^{\circ} 53' N.$ on lat.arc; and determine a meridian with the solar at the cor.of secs. 21, 22, 27, and 28. Thence I run

N. $89^{\circ} 50' E.$ on random line bet.secs. 22 and 27,

40.00 Set temp. & sec.cor.

50.20 Intersect N. and S. line 12 lks. N. of cor.of secs. 22, 23, 26 and 27. Thence I run

S. $89^{\circ} 55' W.$ on true line bet.secs. 22 and 27,

Steep ascent in dense brush. alt. 01:00

19.00 Top of ridge, 500 ft. high, course N. $20^{\circ} W.$ and S. $10^{\circ} E.$ Descend in scattering brush. alt. 01:00

40.10 Set a sandstone 20 x 6 x 6 ins., .15 ins. in the ground, for & sec.cor., marked & on N. face; and raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high N. of cor.. Pits impracticable. Descend gently through scattering oak and serviceberry brush. alt. 01:00

61.46 Steep descent. alt. 01:00

80.20 The cor.of secs. 21, 22, 27, and 28. Land, mountainous. Soil, loam; 1st rate. No timber.

SUBDIVISION OF T. 22 S., R. 2 E.

Chains	Undergrowth, oak and serviceberry.
	Mountainous land 80.20 lchs.
15.00	loss of altitude 100 ft. to cor. of sec. 21, 22, 27, and 28. Sun 61.86 from surface.
	Knowing that I will not intersect cor. of secs. 20, 21, 28 and 29 within limits, I run
11.00	West on a true line bet. secs. 21 and 28, descending gradually in scattering brush.
28.84	Maple Spring Canon, drains north.
33.84	Foot of bluff, 400 ft. high, bears N. and S. and
40.00	Top of same; ascend in dense oak brush. 15 ins. in the ground. Top of ridge, 500 ft. above Maple Spring Canon; bears N. and S.
48.50	Set a sandstone 20 x 6 x 5 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor. Pits impracticable. No trees within limits.
75.00	Descend through scattering oak brush.
88.13	Wagon road, bears N. 10° W. and S. 10° E. across to
	Enter dense cedars and pinon pine. 15 ins. in the ground. Intersect boundary sec. 20. N. 10° W. 15' E. 15.30 lchs. from cor. of cor. of secs. 20, 21, 28, and 29, heretofore described. Set a sandstone 18 x 8 x 6 ins., 16 ins. in the ground to bedrock, overlooking cor. of secs. 21 and 28, marked with 2 grooves on S. and 4 on E. faces, and C on E. face; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high E. of cor. Pits impracticable.
	A pinon pine, 12 ins. diam., bears N. 17° E. 43 lcs. dist., marked T 22 S R 2 E S 21 B T.
	40.00

SUBDIVISION OF T.22 S., R.2 E.

Chains.	A cedar 10 ins. diam. bears S. 83° E. 57' lks. dist. 113 marked T 22 S R 2 E S 28 1 B T
	I destroyed all marks on old cor. pertaining to secs. 21 and 28.
	Land, mountainous.
Soil,	Soil, loam; 1st. rate.
Timber,	Timber, cedars and pinon pine.
Undergrowth,	Undergrowth, oak brush.
Mountainous land	Mountainous land 88.13 chs. .30 lbs. N. 26° 13' E. 29 lbs.
Began to record sec. line 1 June 16, 1911.	
	From 1 sec. line 16 lbs. N. 26° 13' E. 29 lbs.
	June 16, 1907. From sec. line 16 lbs. N. 26° 13' E. 29 lbs.
	June, 26, 1907. From sec. line 16 lbs. N. 26° 13' E. 29 lbs.
	Descend. on a narrow trail N. 80° W. bet. secs. 21 and 22, high 00.11
5.50	Enter dense oak brush. On N. slope; open to get 00.05
10.50	Descend. into a gulch 000.00 ft. deep to get 00.05
14.25	Gulch, drains west. .50 lbs. N. 26° 13' E. 29 lbs.
14.50	Ascend. on a trail S. 80° W. bet. secs. 21 and 22, high 00.05
28.00	Descend. into a gulch N. 80° W. bet. secs. 21 and 22, high 00.05
31.00	Gulch. drains west. 00.05 ft. high. On N. slope to
40.00	Set a sandstone 24 x 12 x 4 ins. 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high W. of cor. Pits impracticable. This cor. stands in dense oak brush. 00.05
64.50	Gulch, drains N. 80° W. Steep descent over boulders and ledges.
80.00	Set a sandstone 16 x 8 x 5 ins., 21 ins. in the ground for cor. of secs. 15, 16, 21, and 22, marked with 3 notches on S. and E. edges; and raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high W. of cor. Pits impracticable. 00.05
	A pinon pine, 4 ins. diam. bears S. 60° 17' E. 52 lks. .01 dist., marked T 22 S R 2 E S 22 B T
	A pinon pine, 10 ins. diam. bears S. 17° 03' W. 13 lks. dist., marked T 22 S R 2 E S 21 B T
	A cedar, 30 ins. diam. bears N. 26° 13' E. 29 lks.

SUBDIVISION OF T. 22 S., R. 2 E.

	Chains. marked T 22 S R 2 E S 15 B T .
	No other bearing trees within limits.
	Land, mountainous. . .
	Soil, loam; 1st rate.
	Timber, a few scattering cedars and pinon pine.
	Undergrowth oak brush.. .
	Mountainous land 80.00 chs. . .
40.00	N.89° 55' E.on a random line betsecs.15 and 22, Set temp. $\frac{1}{4}$ sec.cor.
80.08	Intersect N. and S.line 5 lks.N.of cor.of secs.14,15,22, and 23. Thence I run
	S.89° 57' W.on a true line betsecs.15 and 22, Ascend abruptly over rocky ground and through dense un- dergrowth...
3.10	Enter scattering pine and cedar; leave brush.
25.00	Ridge, 1000 ft.high bears S. and N.45° W. Descend.
26.00	Top of ledge, 50 ft.high, bears N.45° W. and S.
31.00	Foot of same; gentle descent in scattering cedars.
40.04	Set a sandstone 14x10x10 ins., 9 ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high N.of cor.Pits impracti- cable.
	A cedar, 12 ins.diam.bears N.11° E. 48 lks.dist. marked $\frac{1}{4}$ S 15 B T .
	A cedar, 10 ins.diam.bears S.62° E. 24 lks.dist. marked $\frac{1}{4}$ S 22 B T .
44.04	Top of ledge, 3 ft.high, course N. and S.
46.04	Bottom of same. . .
	Descend rapidly in dense cedars and pine.
50.54	Enter sagebrush flat extending 3.00 chs.on each side of line N. and S.
54.94	Leave sagebrush; descend gradually in dense cedars and

SUBDIVISION OF T. 22 S., R. 2 E.

- chains. pine.
- 72.00 Steep descent.
- 74.58 Top of ledge, 12 ft. high, bears N. and S.
- 74.58 Bottom of same.
- 76.58 Shallow ravine drains W.
- 77.58 Same ravine, drains NW.
- 80.08 The cor.of secs.15,16,21, and 22.
- Land, mountainous.
- Soil, rocky; 2d rate.
- Timber, pine and cedar, 72.48 chs.
- Undergrowth oak brush.
- Mountainous land 80.08 chs.

June 26, 1907.

June 17, 1911; At 8 h. 32 m.a.m.l.m.t.I set off $23^{\circ} 23'N'$ on decl.arc; $38^{\circ} 54'N$.on lat.arc; and determine a meridian with the solar at the cor.of secs. 15,16,21, and 22.

Knowing that I will not intersect cor.of secs.16,17,20 and 21 within limits I run

- West on a true line bet.secs.16 and 21,
Descending abruptly.
- 2.00 Maple Spring Canon drains $N.5^{\circ} W.$
- 4.00 Ascend over steep cliffs; through dense cedars and pine.
- 18.19 Top of ridge, bears N. and S., 600 ft.above Maple Spring Canon.
- Descend gradually through scattering cedars.
- 25.00 Enter sagebrush flat sloping N.
- 35.50 Leave sagebrush; enter dense cedars and pinon pine.
- 40.00 Set a sandstone 18x8x8 ins., 12 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high N.of cor.Pits impractical.

A pinon pine stump 6 ins.diam.bears $N.86^{\circ} E.$ 10

-14-33-

SUBDIVISION OF T.22 S., R.2 E.

Chains.	lks.dist.marked $\frac{1}{4}$ S 16 B S	episodic
	A pinon pine 8 ins.diam.bears S.25° 18'W. 19 lks.	episodic
	dist., marked $\frac{1}{4}$ S 21 B T	episodic
	Descend in dense cedars and pine; land sloping NW.	episodic
54.50	Top of ledge, 10 ft.high, bears NW.	episodic
55.00	Foot of same.	episodic
62.50	Small gulch, drains NW.	episodic
64.00	Top of ledge, 16 ft.high, course NW.	episodic
64.50	Foot of same.	episodic
87.08	Intersect E.bdy.secs.17'N.0° 35'W.12.38 chs.from cor.of secs.16,17,20, and 21, heretofore described.	episodic
	Set a sandstone 18 x 10 x 6 ins., on bedrock, in mound of stone, for closing corner of secs.16 and 21, mkd. with 3 grooves on S. and 4 grooves and C.C on E.face and raise a mound of stone 2 ft.base, 1 $\frac{1}{2}$ ft.high E. of cor. Pits impracticable.	episodic
	A cedar 30 ins.diam.bears S.55°E.47 lks.dist. marked T 22 S R 2 E S 21 B T	episodic
	A cedar 24 ins.diam.bears N.53° E.40 lks.dist. marked T 22 S R 2 E S 16 B T	episodic
	I destroy all marks on old cor.pertaining to secs.16 and 21.	episodic
	Land, mountainous.	episodic
	Soil, loam, 1st rate; stony, 2d rate.	episodic
	Timber, pine and cedar 72.58 chs.	episodic
	Undergrowth, sagebrush.	episodic
	Mountainous land 87.08 chs.	episodic
	June 17, 1911.	episodic
00.75	VI and V, 10' apart, with clearings, 100 ft. apart, 100 ft. June 27, 1907.	episodic
	N.0° 02'W.bet.secs.15 and 16,	episodic
	Ascend.	episodic
1.00	Descend.	episodic
1.50	Shallow ravine, draining NW.	episodic
	entirely 100 ft. S, 90 ft. W, 100 ft. N, 90 ft. E, 100 ft. S, 90 ft.	episodic

SUBDIVISION OF T.22 S., R.2 N.

Chains.	
2.25	Ascend over ledges and through cedars.
10.22	More gradual ascent.
40.00	Set a sandstone 18 x 10 x 6 ins., 12 ins. in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; and raise a mound of stones 2 ft. base, $1\frac{1}{2}$ ft. high W.of cor. A cedar 6 ins.diam.bears N.65°59'E.16 lks.dist. marked $\frac{1}{4}$ S.16 B T
	A cedar 8 ins.diam.bears N.39°37'W.31 lks.dist. marked $\frac{1}{4}$ S.16 B T
	Gentle descent in cedars and pinon pine.
55.00	Steep descent.
56.72	Precipitous descent of 1000 ft. to Salina Canon, which I cannot chain. It is also impracticable to triangulate from here. I therefore, establish a point on line north in Salina Canon, and set a flag at 56.72 chs. Af- ter passing Salina Canon the line will strike an al- most perpendicular bluff 300 ft. high, which is also impossible to chain. I set a flag on line on top of same; then I proceed as follows: From the just estab- lished point in the canon, I measure a base S.81°54' E.10.00 chs.to a point from which the flag south bears S.32°01'W. From the flag south the E.end of base bears N.32°01'E. The dist.south is therefore $10 \times \sin 66°05' = \sin 32°03' = 17.23$ chs., making the whole dist.south 56.72 plus 17.23 equals 73.95 chs. From the point in the canon I also measure a base N. 82°14'W.10.00 chs.to a point from which the flag north bears N.31° 31'E. From the flag north the west end of this base bears S.31° 31'W. The distance north is therefore $10 \times \sin 66° 15' = \sin 31° 33' = 17.50$ chs.making the whole dist.north 73.95 plus 17.50 = 91.45 chs.Thence from point in canon I run S.0° 2'E. 5.00 chs., which subtracted from 73.95 chs. makes
68.95	Leave scattering timber.
71.00	Enter Salina Canon.
72.99	Salina Creek, 1.00 ch.wide, 2 ft.deep, drains N.75°W.

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SUBDIVISION OF T. 22 S. R. 2 E.

Chains:		Land
73.99	R.G.W.R.R. track bears N.82°W. and S.82°E. Gage 30.00 Across canon wash through brush and willows.	
76.70	Wagon road to Castle Valley bears E. and W. Ascend over ground strewn with boulders.	
80.00	Set a sandstone 14 x 9 x 6 ins., 9 ins. in the ground, for cor. of secs. 9, 10, 15, and 16, marked with 4 notches on S. and 3 notches on E. edges; and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor. Pits impracticable. A cedar 6 ins. diam. bears N.6°W. 1.38 chs. dist. marked T 22 S R 2 E S 9 B T	
	A cedar 6 ins. diam. bears N.24°20'E. 6.69 lks. dist. marked T 22 S R 2 E S 10 B T	
	A cedar 4 ins. diam. bears S.11°21'W. 15 lks. dist., marked T 22 S R 2 E S 15 B T	
	A cedar, 5 ins. diam. bears S.31°55'W. 11.69 chs. dist., marked T 22 S R 2 E S 16 B T	
	Land, mountainous; soil, loam; 1½ ins. Soil, loam; 1st rate; stony 2d rate; one sp. tree Timber, pine and cedar 66.70 chs.	
	Undergrowth, willows 2.71 chs. Mountainous land 80.00 chs.	

June 27: At the cor. of secs. 9, 10, 15, and 16, I set off

23° 22'N. on decl. arc; and at 0 h 03 m p.m. l.m.t., ob-

serve the sun on the meridian; the resulting lat. is

38° 55'N.

Thence I run

N.89° 57'E. on a random line bet. secs. 10 and 15,

Set temp. + sec. cor.

Intersect N. and Sline 9 lks. S. of cor. of secs. 10, 11, 14,

and 15. Thence I run .61 chs. above Sline 9 lks.

S.89° 53'W. on a true line, bet. secs. 10 and 15, 00.00

Descending. 00.00. 00.00. 00.00. 00.00. 00.00. 00.00.

3.75 Gulch drains south, valley floor of river north 00.00

7.00 Rapid descent over cliffs in scattering cedars and pine.

SUBDIVISION OF T. 22 S., R. 2 E.

Chains. 28.00	Steep descent in scattering cedars and pine.
38.85	Gulch drains S.20°W. Ascend over rock slide.
40.05	Set a sandstone 20 x 12 x 5 ins., on ledge in large mound of stone for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high N.of cor.
	Pits impracticable.
	A cedar 12 ins.diam.bears N.76°W. 37 lks.dist. marked $\frac{1}{4}$ S 10 B T
	A cedar 12 ins.diam.bears S.74°E.60 lks.dist. marked $\frac{1}{4}$ S 15 B T
73.00	Mouth of coal mine tunnel 4 ft.wide, 6 ft.high, bears N.1.80 chs.dist.
76.70	Descend over ledges in scattering cedars.
.80.10	The cor.of secs.9,10,15, and 16. Land, mountainous. Soil, loam; 1st rate, and stony, 2d rate. Cliffs and ledges, 4th rate. Timber, scattering cedars and pine 73.10 chs. Mountainous land 80.10 chs.
	June 27, 1907.

June 18, 1911: At 8h 32m a.m.l.m.t., I set off 23° 25'

N.on the decl.arc; 38° 55'N.on lat.arc; and determine a meridian with the solar at the cor.of secs.9,
10,15, and 16.

Knowing that I will not intersect cor.of secs.8,9,16
and 17/within limit 1 run

West on true line betsecs.9 and 16, yield 1.00 chs
Ascending over ledges.

9.00	Descend rapidly in cedars and pine.
33.10	R.G.W.R.R.track bears N.65°W. and S.65°E.
36.00	Wagon road to Castle Valley bears N.30°W. and S.50°E.
37.00	Salina Creek, 1.00 ch.wide, 2 ft.deep, bears N.48°W.
40.00	

SUBDIVISION OF T. 22 S., R. 2 E.

Chains.	Point for $\frac{1}{2}$ sec.cor. falls in Salina Creek, craining S. 44°W.; corner cannot be set.
40.00	Set a limestone 20 x 8 x 4 ins., 15 ins.in the ground, for witness cor. to $\frac{1}{2}$ sec.cor., marked WC $\frac{1}{2}$ on N.face; and raise a mound of stone 2 ft.base, 1 $\frac{1}{2}$ ft.high N. of cor. Pits impracticable. marked WC $\frac{1}{2}$ S 9 B T
40.25	A maple 8 ins.diam.bears N.34°E. 25 lks.dist. marked WC $\frac{1}{2}$ S 16 B T
41.00	Bearing 0.6 mi. and S 1 .east from N.W. corner of sec. 9 marked WC $\frac{1}{2}$ S 16 B T
44.00	Salina Creek drains N.45°W., 1.00 ch.wide, 2 ft.deep.
48.00	Ascend.
62.00	Steep ascent over ledges in dense cedars and pines.
87.95	Intersect E.bay.sec.8 $\frac{1}{2}$ N.1°05'W.11.49 chs. from cor.of secs.8,9,16, and 17; heretofore described. Set a sandstone 14 x 9 x 9 ins.on bed rock in mound of stone for closing corner of secs.9 and 16, marked with 4 grooves on S.and E.faces, and C C on E.face; and raise a mound of stone 2 ft.base, 1 $\frac{1}{2}$ ft.high E.of cor. Pits impracticable. A cedar 30 ins.diam.bears S.69°E.40 lks.dist. marked T 22 S R 2 N S 16 B T
	A pine 6 ins.diam.bears N.11°E. 31 lks.dist. marked T 22 S R 2 E S 9 B T
	I destroy all marks on old cor.pertaining to secs.9 and 16. and 16. Land, mountainous. Soil, loam, 1st rate; rocky,2d rate; ledges,4th rate. Timber; pine and cedar. Mountainous land 87.95 chs.
	June 18, 1911.

June 28, 1907: At 8h 33m a.m.l.m.t., I set off 23° 20'

SUBDIVISION OF T. 22 S., R. 2 E.

Chains.	N.on decl.arc; 38° 55' on lat.arc; and determine a me- ridian with the solar at the cor.of secs.9,10,15, and 16. Thence I run
16.00	Set a sandstone 18 x 8 x 6 ins., 6 ins.in the ground, marked with 5 notches on S. and 3 notches on E. edge; and raise a mound of stone 2 ft.base, 1½ ft. high W.
1.45	Foot of bluff, 300 ft.high, bears E.and W.
11.45	Top of bluff. Ascend in dense cedars and pine.
40.00	On top of ridge, bearing E.and S:43°W.
	Set a sandstone 18 x 6 x 6 ins., 12 ins.in the ground, marked with 5 notches on S. and 3 notches on E. edge; and raise a mound of stone 2 ft.base, 1½ ft. high W.of cor. Pits imprac- ticable.
	A cedar 13 ins.diam., bears S.10°W. 11 lks.dist. marked ¼ S 9 B T
	A cedar 13 ins.diam.bears S.5°E. 16 lks.dist. marked ¼ S 10 B T
44.64	Descend gradually in cedars and pine. Steep descent.
54.00	Brim or precipice 400 ft.deep, to Alumbed hollow, which it is impossible to chain.
	I, set a flag on line on N.side of ravine on top of pre- cipice; then at 54.00 chs.I measure a base N.89° 58' E.10.00 chs.to a point; whence the flag north bears N.25° 29'W. The distance from west end of base to flag north is then tang.64° 33' x base = 21.01 chs., which, added to 54.00 chs.makes
75.01	Brim of precipice N.side of of Alumbed Hollow, bears E. and W.
	Ascend gradually in cedars and pine.
80.00	Set a sandstone 18 x 8 x 6 ins., 6 ins.in the ground to bedrock, in mound of stones for cor.of secs.3,4,9, and 10, marked with 5 notches on S. and 3 notches on E. edge; and raise a mound of stone 2 ft.base, 1½ ft. high W. of cor. Pits impracticable.

SUBDIVISION OF T.22 S., R.2 E.

Chains.

A cedar 7 ins.diam.bears N.49°28' E.23 lks.dist.

marked T 22 S R 2 E S 3 B T

1000 ft. no. 111 °08' No. sec. 1.00 chs JA:00 open
A cedar 9 ins.diam.bears N.54°W. 22 lks.dist.soil loam, stony, 1st rate, 2d rate.
marked T 22 S R 2 E S 4 B T1000 ft. no. 112 °08' No. sec. 2.00 chs JA:00 open
A cedar 9 ins.diam.bears S.29° 08' W.26 lks.dist.

soil loam, stony, 1st rate, 2d rate.

marked T 22 S R 2 E S 9 B T

A cedar 9 ins.diam.bears S.39° 02' E.29 lks.dist.

marked T 22 S R 2 E S 10 B T

1000 ft. no. 113 °08' No. sec. 3.00 chs JA:00 open
Land, mountainous.

soil loam, stony, 1st rate, 2d rate.

Soil, loam, 1st rate, stony, 2d rate.
to 100 and 1000 ft. no. sec. 4.00 chs JA:00 open
Timber, pine and cedar 47.54 chs.

Mountainous land 80.00 chs.

1000 ft. no. 114 °08' No. sec. 5.00 chs JA:00 open
A cedar 10 ins.diam.bears N.49°28' E.23 lks.dist.

JA:00 open

A cedar 11 ins.diam.bears N.89° 53' E. on a random line bet. secs. 3 and 10,

Set temp. $\frac{1}{4}$ sec.cor.Intersect N. and S. line 7 lks.S. of cor. of secs. 2, 3, 10,
and 11. Thence I run

a true line bet. secs. 3 and 10, S.89° 50' W. on a true line bet. secs. 3 and 10,

Descend to base of Alumbed Hollow. Descend in dense cedars and pine.

Alumbed Hollow, drains S.30°W. Ascend.

Descend over precipitous ledges on N.side of Alumbed
Hollow.Set a sandstone 14 x 4 x 4 ins., 9 ins.in the ground,
for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; and raise a mound
or stone 2 ft.base, 1 $\frac{1}{2}$ ft.high N.of cor. Pits imprac-

ticable.

A cedar 5 ins.diam.bears N.66°E. 6 lks.dist.

marked $\frac{1}{4}$ S 3 B T

A pinon pine, 9 ins.diam.bears S.36°W.31 lks.

soil loam, 1st rate, 2d rate.

dist., marked $\frac{1}{4}$ S 10 B T

soil loam, 1st rate, 2d rate.

The cor.of secs. 3, 4, 9, and 10.

soil loam, 1st rate, 2d rate.

Land, mountainous.

soil loam, 1st rate, 2d rate.

Soil, loam, 1st rates stony, 3d rates, ledges 4th rate.

soil loam, 1st rates stony, 3d rates, ledges 4th rate.

SUBDIVISION OF T. 22 S., R. 2 E.

Chains. Timber, cedars and pine. **Wetland** **Wetland**
Mangroves land 80-88% share

June 28: At this cor. I set off $23^{\circ} 19' N.$ on decl. arc; and at $0\text{ h }03\text{m}$ p.m.l.m.t., observe the sun on the meridian; the resulting lat. is $38^{\circ} 56' N.$

June 28, 1907.

June 19, 1911: At 8h 32m a.m.l.m.t., I set off $23^{\circ} 26'$
N. on the decl.arc; $38^{\circ} 56'$ N. on lat.arc; and after-
mine a meridian with the solar at the cor. of secs. 3, 4,

Knowing that I will not intersect cor. of secs. 4, 5, 8, and
9 within limits. I run

West on a true line bet. secs. 4 and 9,
S. 40 deg. 45 min. E. distance 3 mi. 446 yds.

Through dense cedars and pine; ascending.

34.10 Top of ridge bears N. 40°E. and S. 40°W.
40.00 Set a sandstone 20 x 10 x 4 ins., 4 ins. in the ground
to bedrock, in mound of stones for $\frac{1}{4}$ sec.cor., marked
 $\frac{1}{4}$ on N.face; and raise a mound of stone 2 ft.base, 1 $\frac{1}{2}$
ft.high N.of cor. Pits impracticable.

A cedar 16 ins. diam. bears N.70°15'E.16 lks. dist.
from last re-occur. at 10' height and 16' from ground. 02. Vg
marked $\frac{1}{2}$ S 4 B T

A cedar 6 ins. diam. bears S. 26°-15' W. 38 lks. dist.
marked + S 9 B T
Descend in dense cedars and pine.

64.00 This gulch drains SW.

67-40 Same gulch drains NW.

80.00 Same gulch drains SW

Ascend over rocky ledges in dense timber.

88.50 top of ridge bear N 45° E., and S 45° W.
.91 miles E. A. 6,000 ft. 6

Descend in dense timber.

89.40 Intersect E. boundary of sec. 5 N. 44° W. 11.

of secs. 4, 5, 8, and 9,

SUBDIVISION OF T. 22 S., R. 2 E.

Chains.

Set a sandstone 18 x 6 x 5 ins., 12 ins. in the ground, for closing cor. of secs. 4 and 9, marked with 5 grooves on S, and 4 grooves on E. face; end. C.C. on E. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high E. of cor. Pits impracticable.

A cedar 5 ins. diam. bears N. 52° E. 22 lbs. dist.

marked T 22 S R 2 E S 4 B.T.

A cedar 10 ins. diam. bears S. 73° E. $30\frac{1}{2}$ lbs. dist.

marked T 22 S R 2 E S 9 B.T.

An old fallen pine tree with surveyor's line marks, old but plain, lies 30 lbs. W. of cor.

I destroy all marks on old cor. pertaining to secs. 4 and 9.

Land, mountainous.

Soil, loam, 1st rate; rocky ledges, 4th rate.

Timber, cedar and pine 89.40 chs.

Mountainous land, 89.40 chs.

June 19, 1901.

June 28, 1907:

N. $0^{\circ} 02'$ W. bet. secs. 3 and 4 on random line.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

68.00 Intersect N. bay. of Tp. 55 lbs. E. of cor. of secs. 3, 4, 33, and 34, heretofore described.

Thence I run

S. $0^{\circ} 30'$ E. on a true line bet. secs. 3 and 4,

Steep ascent through pine and cedar.

Less rapid ascent.

18.00 Leave timber.

22.00 Enter mesu, open gradually sloping sagebrush land, extending E. and W. 6 chs. on each side of line.

28.00 Set a sandstone 20 x 10 x 6 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound

SUBDIVISION OF T.22 S., R.2 E.

Chains.

of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Pits impracticable.

Leave mesa. Rapid ascent in dense brush. No

Top of ridge, bears E. and W.; leave brush. Gradual descent in dense cedars and pine.

Small gulch, drains SW.

Cor. of secs. 3, 4, 9, and 10.

Land, mountainous. Soil, loam, 1st rate; stony 2d rate.

Timber, pine and cedar 44.00 chs. big n.

Undergrowth, sagebrush. small oak, cypress.

Mountainous land 68.00 chs. small live oaks.

June 28, 1907.

BOUNDARIES OF FRACTIONAL T.22 S., R.2 E.

LATITUDES, DEPARTURES, AND CLOSING ERRORS.

Lines Designated	True Bearing	Dist. chs.	Latitudes, N. chs.	Departures, E. chs.	Departures, W. chs.
East Boundary	North N. $0^{\circ}45'$ W.	400.00 68.93	400.00 68.92	.....	..... 90
North Boundary	N. $89^{\circ}50'$ W.	329.57	6.96	.....	329.57
E. Bay. sec. 5,	S. $0^{\circ}44'$ E.	79.27	79.26	1.01	.....
E. bdy. sec. 8,	S. $1^{\circ}05'$ E.	80.49	80.48	1.52	.....
E. bdy. sec. 17,	S. $0^{\circ}35'$ E.	80.89	80.89	0.82	.....
E. bdy. sec. 20 & 29	S. $0^{\circ}55'$ W.	147.62	147.60	.....	2.36
E. bdy. sec. 32	South	81.40	81.40	.....	.....
South boundary.	N. $36^{\circ}42'$ E. S. $89^{\circ}48'$ E. S. $89^{\circ}50'$ E. S. $89^{\circ}40'$ E.	1.96 90.45 158.31 79.50	1.57	1.17 90.45 158.31 79.50	.....
Convergency					0.39
Total s.		471.45	470.87	332.78	333.22
Error in lat. and dep. no. adjs.		470.87			332.78
Error in lat. and dep. no. adjs.		0.658			0.44

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GENERAL DESCRIPTION, T. 22 S., R. 2 E.

Township 22 S., R. 2 E. is divided into two separate tracts by Salina Canon. About one-third of the Tp. is located north of the canon.

The southern tract is mountainous with high ridges and deep gulches. It drains N. and NW., and produces an abundant growth of grass, large patches of aspen and, in places, dense cedars and pine. The soil is a rich black loam, in places covered with boulders of volcanic origin.

The northern tract is also mountainous, sloping to the south. The soil is loam, frequently traversed by ledges and bluffs of limestone, and produces a heavy growth of pine and cedar.

In both tracts there is a dense undergrowth of oak brush, maple, choke-cherry, sage and serviceberry.

Along Salina Canon there are indications of coal; but I return no sections as coal lands.

The canon is traversed by the Salina-Cut-Off of the Rio Grande Western Ry., built but not in operation.

The railway and its tunnels, as shown on the plat of this survey, are located from an actual traverse along the railway through the entire township.

I found no indications of mineral, other than coal as above stated, in the portion of the township surveyed.

There are no settlers in the portion of this township surveyed by me.

Edward Nissen
Compassman for

Philip D. Schoober, Dep. Surveyor,
Deceased,

Note:

There being no notary public, or other officer authorized to administer oaths, within reasonable distance at the beginning or ending of these surveys; therefore, in order to save time and expense, I administer the preliminary and final oaths myself.

Edward Kiser. Compassman for

Philip D. Schoeber,

U.S. Dep. Surveyor, Dec'd.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Edward Nissen, Compassman for
 Philipp D. Schoeber, Deceased,
 United States Deputy Surveyor, to assist in running, measuring, and
 marking the lines and corners described in the foregoing field notes of the survey of the subdivision
 of fractional township No. 22 S., R. 2 E., Salt Lake Base and Meridian, Utah,
 showing the respective capacities in which they acted:

Leon Wilson	, Chainman.
Robert Gorlinski	, Chainman.
France Mattsson	, Moundman.
Neils P. Rasmussen	, Moundman.
Orval Clawson	, Axman.
Neils P. Rasmussen	, Axman.
	, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Edward Nissen, Compassman for Philipp D. Schoeber, Deceased, United States Deputy Surveyor, in surveying all those parts or portions of the the subdivision of fractional township No. 22 South Range No. 2 East

of the Salt Lake
 Base and meridian, State of Utah, which are represented
 in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
 was been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
 corner monuments established, according to the instructions furnished by the United States Surveyor
 General for U t a h.

Leon Wilson	, Chainman.
<i>Robert Gorlinski</i>	, Chainman.
France Mattsson	, Moundman.
<i>Neils P. Rasmussen</i>	, Moundman.
<i>Orval Clawson</i>	, Axman.
<i>Neils P. Rasmussen</i>	, Axman.
	, Flagman.

Subscribed and sworn to before me this 28th day of June, 1907 }

Edward Nissen
 Compassman for Philipp D. Schoeber,
 U.S. Dep. Surveyor, Deceased.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

Schoeber

Dec'd

I, Edward Nissen, Compassman for Philipp D. United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from _____ Jacob B. Blair _____ United States Surveyor General for _____ Utah _____, bearing date of the 11th day of May, 190⁰, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____ Utah _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the subdivision of fractional township No. 22 South, Range No. 2 East

of the Salt Lake

Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____ Utah _____ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Edward Nissen

Compassman for Philipp D. Schoeber

United States Deputy Surveyor.
Deceased.

Subscribed by said Edward Nissen, and sworn to before me
this 22d day of November, 1907

Thomas Hull
U.S. Surveyor-General
for Utah.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, February 26, 1908

The foregoing field notes of the survey of the subdivision of fractional township No. 22 South, Range No. 2 East of the Salt Lake Base and Meridian, Utah,

executed by Edward Nissen, Compassman for Philipp D. Schoeber, D.S., Dec'd under his contract No. 239, dated May 11, 190⁰, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Hull
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Edward Nissen, Compassman for
Deceased
Philip D. Schoeber, United States Deputy Surveyor, to assist in running, measuring, and
marking the lines and corners described in the foregoing field notes of the survey of subdivisional
lines in Township 22 S., R. 2 E. S.L.B. & M., Utah
showing the respective capacities in which they acted:

Robert Gorlinski, Chainman.

D. W. Brighton, Chainman.

, Moundman.

, Moundman.

, Axman.

, Axman.

, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Edward Nissen, Compassman for
Deceased
Philip D. Schoeber, United States Deputy Surveyor, in surveying all
those parts or portions of the subdivisional lines in Township No. 22 South,
Range No. 2 East.

of the Salt Lake

Base and meridian, State of Utah , which are represented
in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
corner monuments established, according to the instructions furnished by the United States Surveyor
General for Utah.

Robert Gorlinski, Chainman.

D. W. Brighton, Chainman.

, Moundman.

, Moundman.

, Axman.

, Axman.

, Flagman.

Subscribed and sworn to before me this 20 }

day of June, 1001 }
Edward Nissen Compassman

for Philip D. Schoeber
U.S. Dep. Surveyor, Deceased...

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

Dec'd

I, Edward Nissen, Compassman for Philipp D. Schoeber, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Jacob R. Blair, United States Surveyor General for Utah, bearing date of the 11th day of May, 1900, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the subdivisional lines of Township No. 22 South, Range No. 2 East

of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Edward Nissen, Compassman
for Philipp D. Schoeber, United States Deputy Surveyor.

Deceased.

Subscribed by said Edward Nissen, and sworn to before me,

this 20th day of January, 1913, AD.

James E. Kelly

U.S. Surveyor-General

for Utah.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Jan. 22, 1913.

The foregoing field notes of the survey of the subdivisional lines of Township No. 22 South, Range No. 2 East of the Salt Lake Base and Meridian, Utah,

executed by Edward Nissen, Compassman for Philipp D. Schoeber, Deceased, under his contract No. 239, dated May 11, 1900, having been critically examined, and the necessary corrections and explanations made in the said field notes, and the surveys they describe, are hereby approved.

James E. Kelly

United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General.